

Profiling of basal and ligand-dependent GPCR activities by means of a polyvalent cell-based high-throughput platform

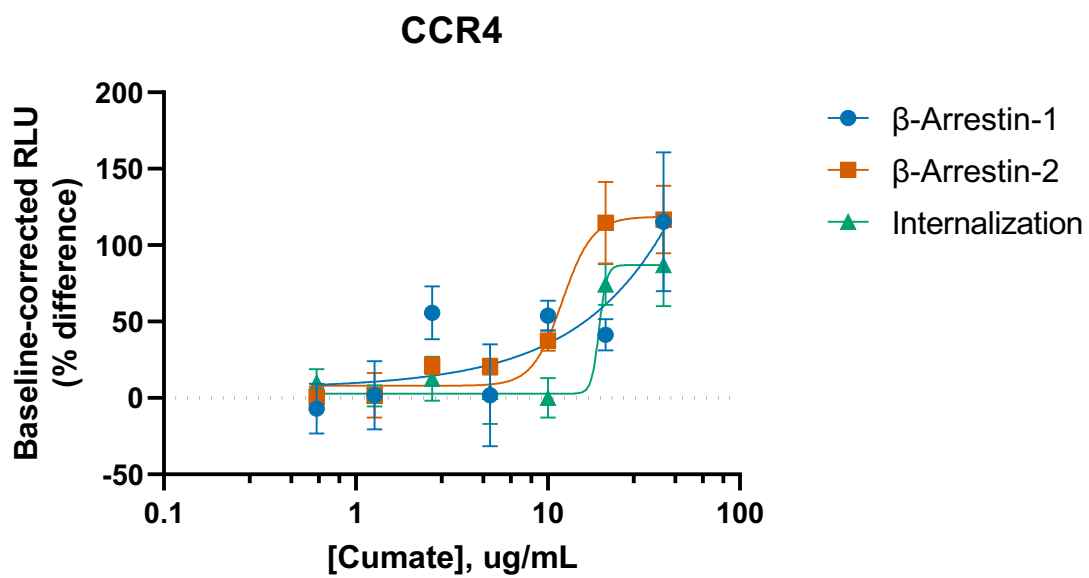
Manel Zeghal¹, Geneviève Laroche¹, Julia Douglas Freitas¹, Rebecca Wang¹, Patrick M. Giguère^{1,2*}

¹ Department of Biochemistry, Microbiology and Immunology, University of Ottawa, Ottawa, ON, K1H8M5, Canada

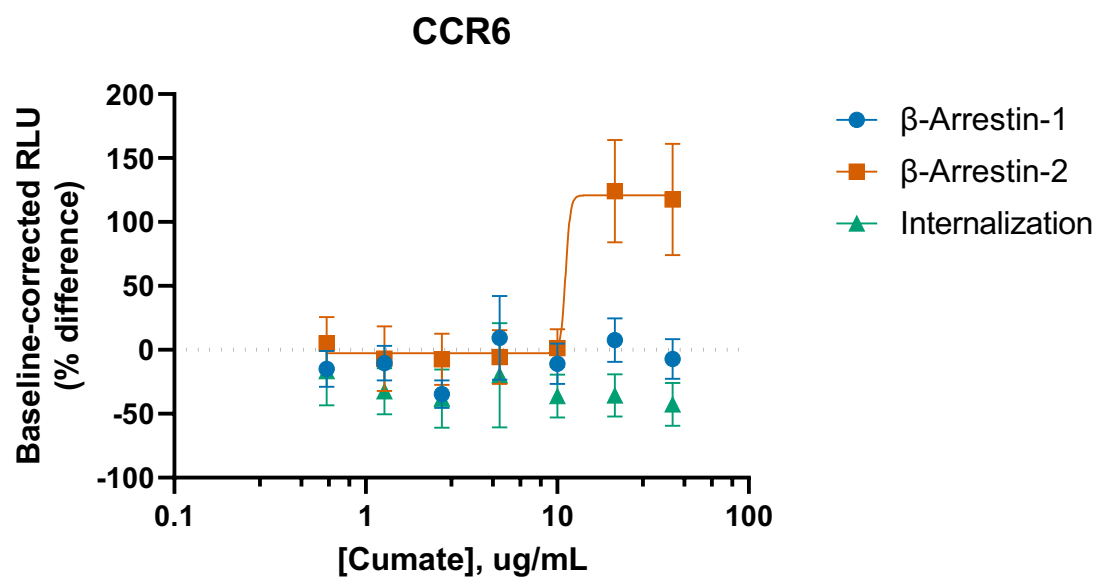
² Brain and Mind Research Institute, University of Ottawa, Ottawa, ON, K1H8M5, Canada

*Correspondence to Patrick M. Giguère. Email: patrick.giguere@uottawa.ca

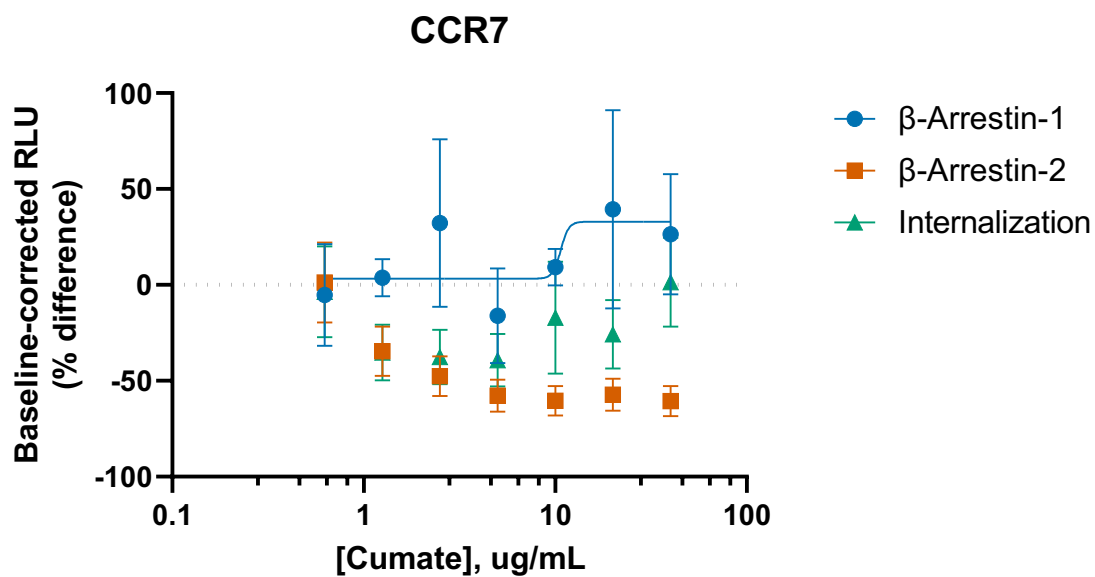
Supplementary File 1. Basal and agonist-induced profiles of β -arrestin-1 and β -arrestin-2 translocation, and receptor internalization generated using Tango-Trio. To profile basal activities, HTTL-B1, HTTL-B2 and HTTL-F cells were transfected with GPCR Tango constructs. Transfected cells were stimulated with cumate in a dose-dependent manner. Dose-response curves were built using XY analysis for non-linear regression curve and the 4-parameters dose-response stimulation function, followed by baseline correction. To quantify agonist-dependent activities, HTTL-B1, HTTL-B2 and HTTL-F cells were plated in cumate-containing (30 μ g/mL) medium and transfected with non-orphan GPCR Tango constructs. Transfected cells were stimulated with the receptor-specific agonist, and dose-response curves were built using XY analysis for non-linear regression curve and the 3-parameters dose-response stimulation function, followed by baseline correction. All error bars represent SEM (n = 3, with 3 technical replicates from one biological sample). Generic receptor codes refer to the GPCR-Tango constructs.

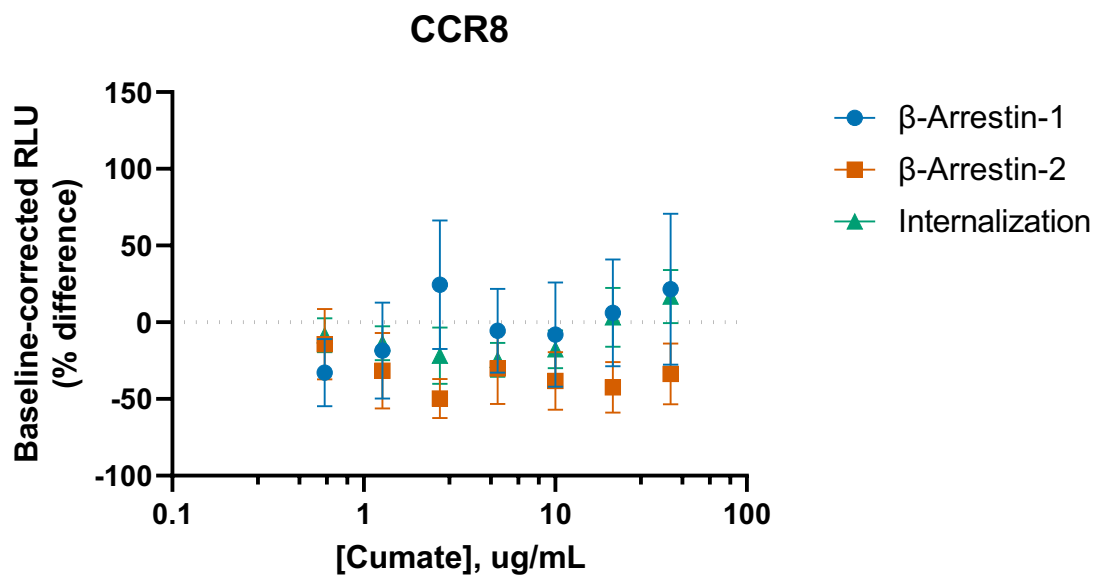


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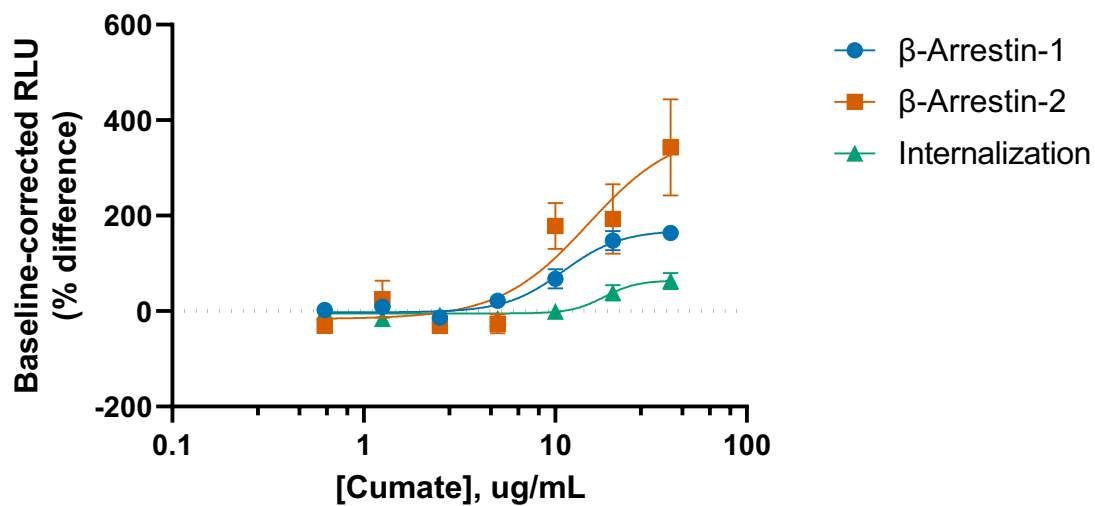


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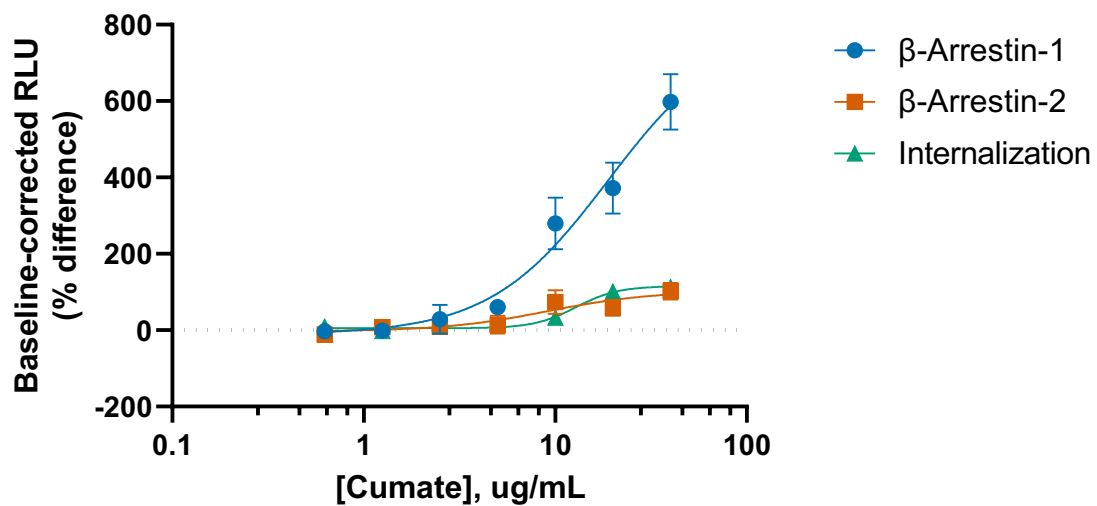




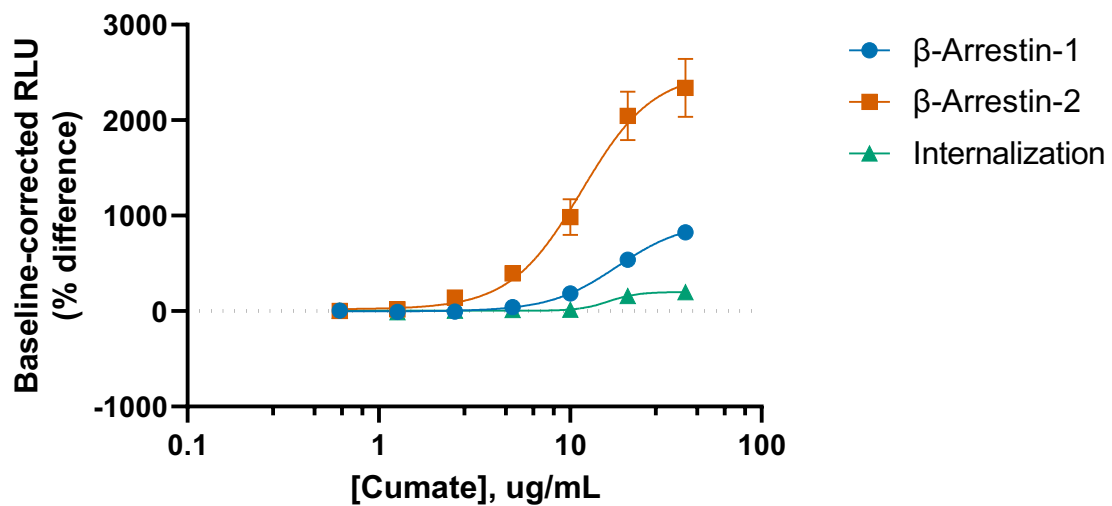
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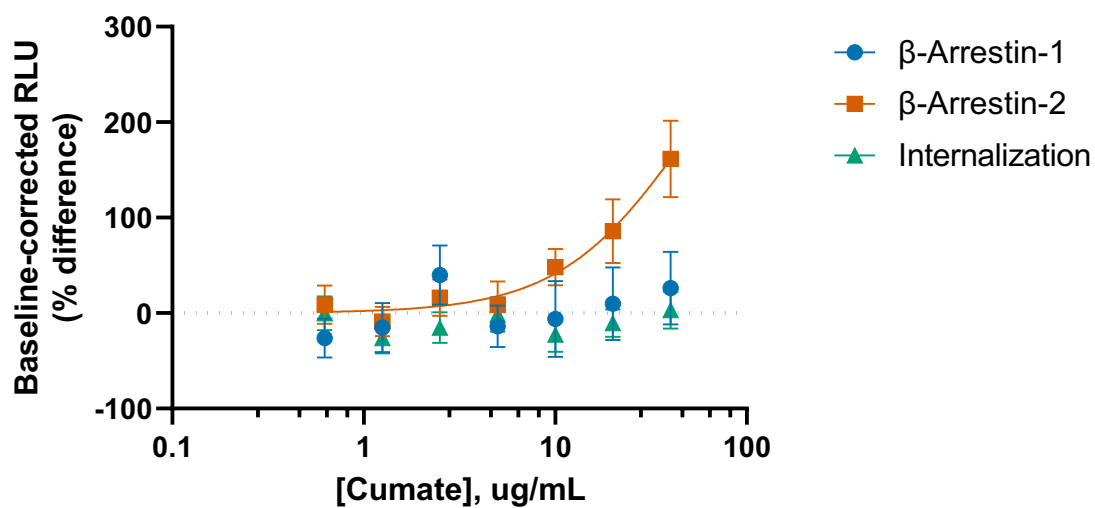


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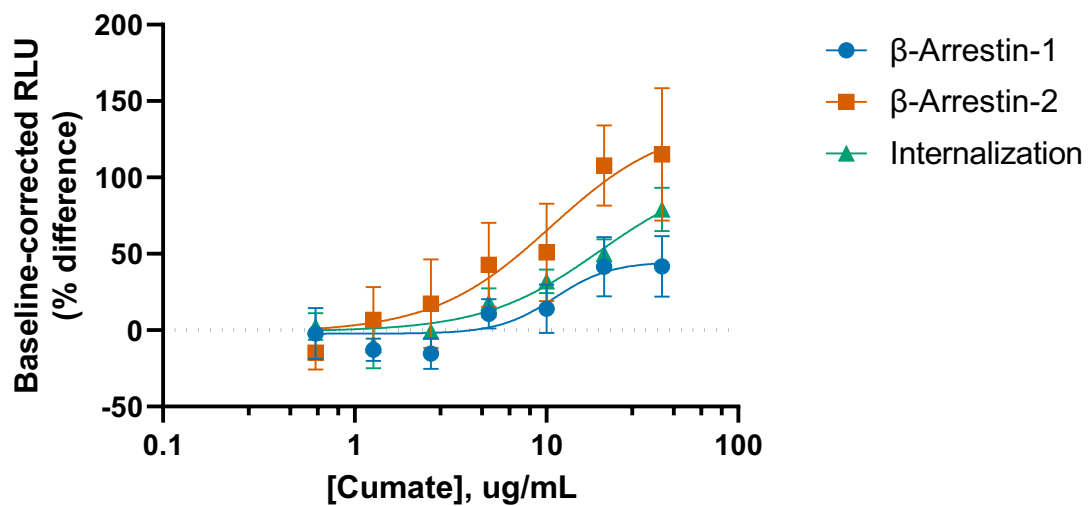


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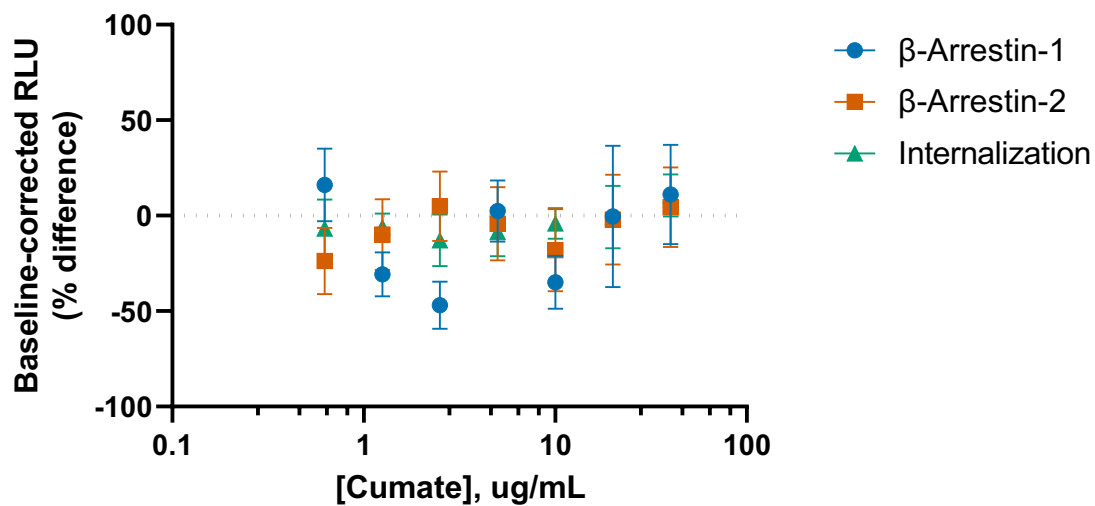
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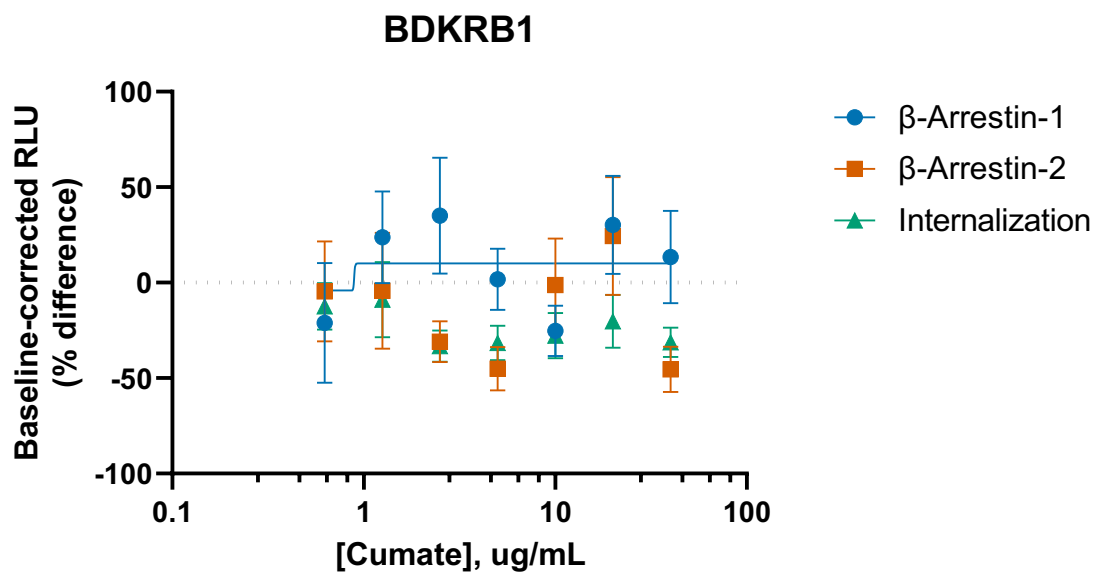
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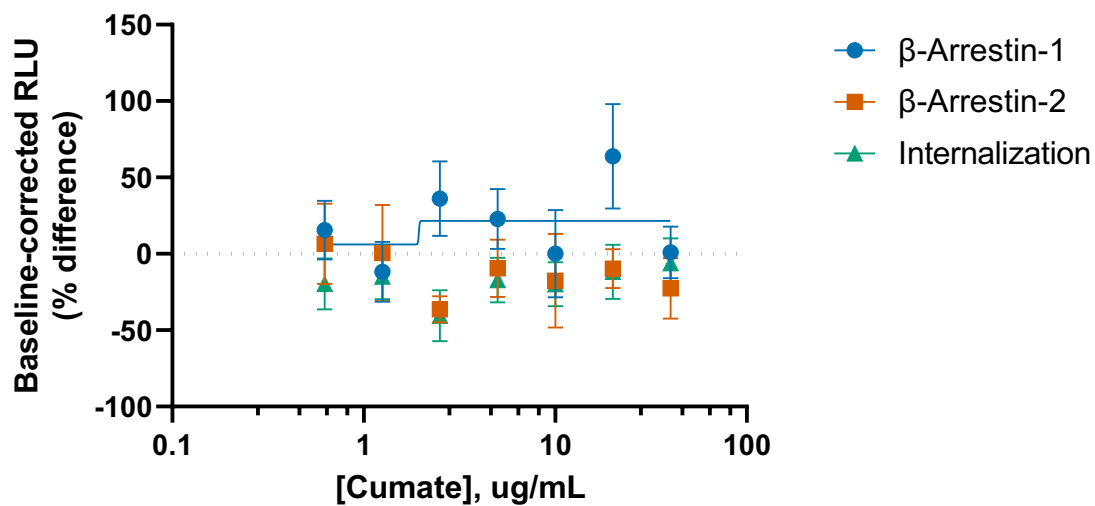
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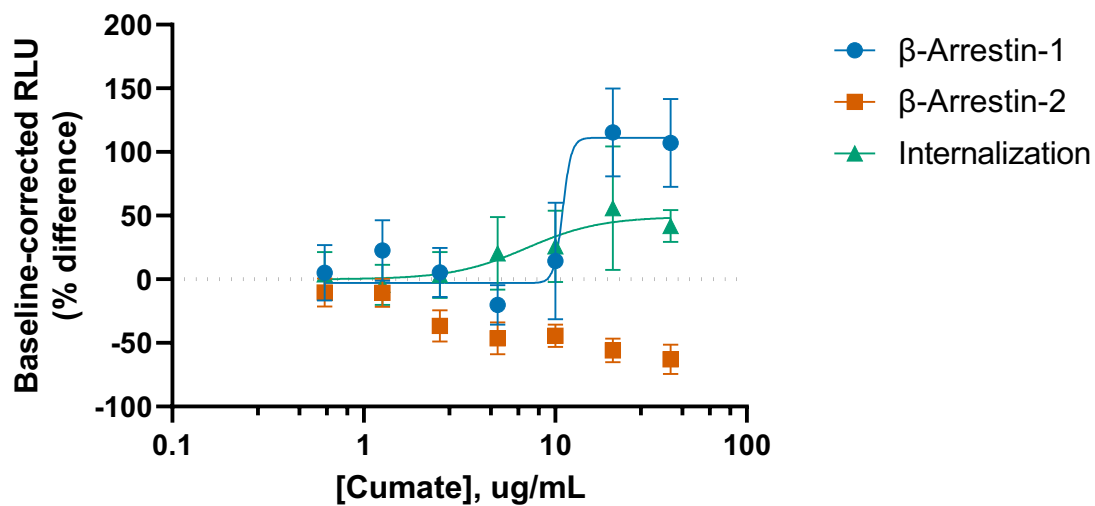
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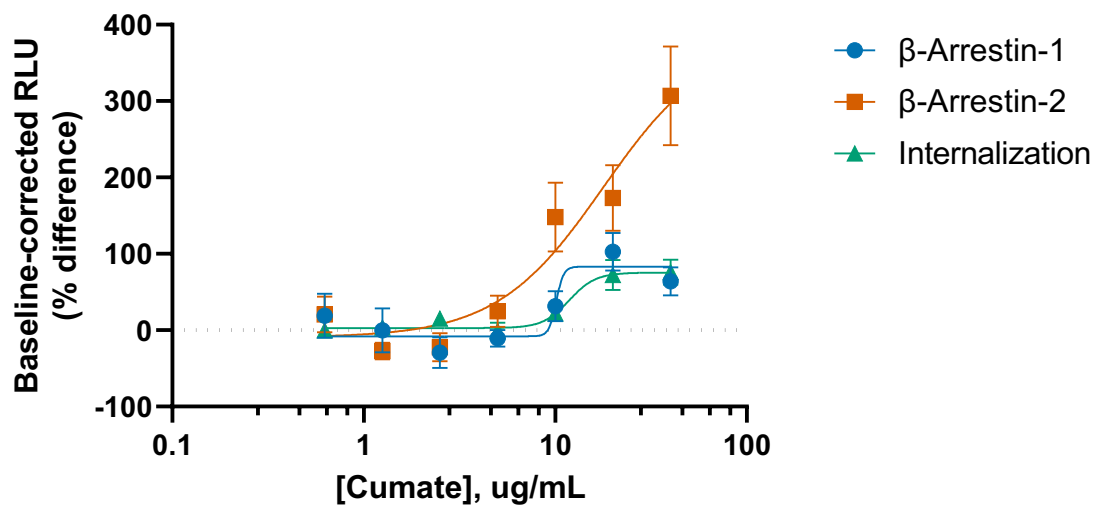
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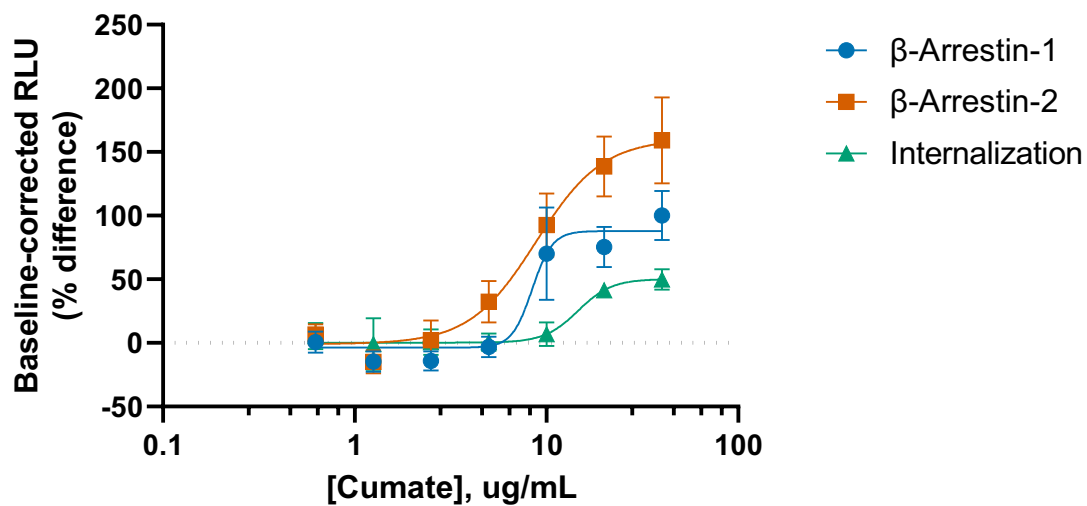
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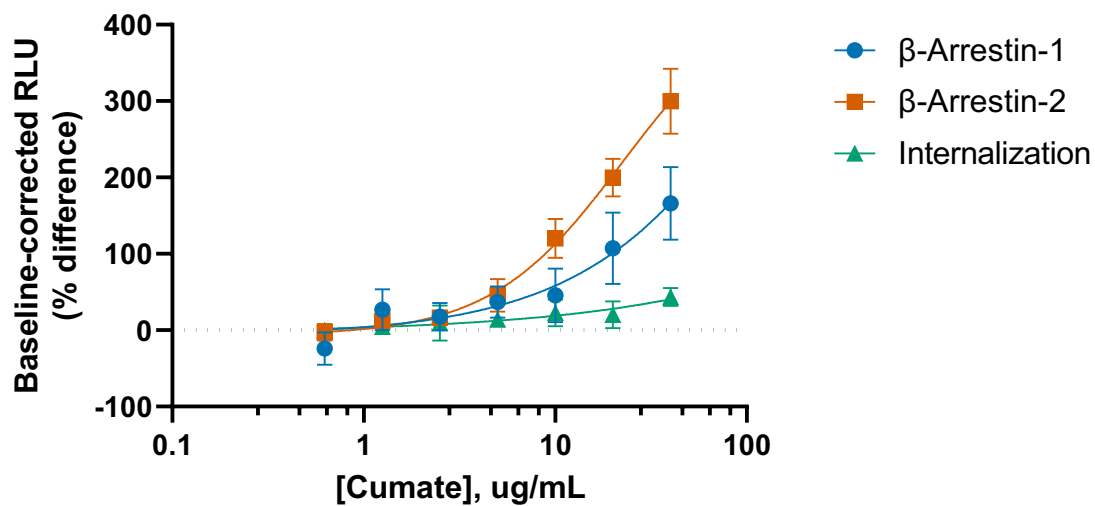
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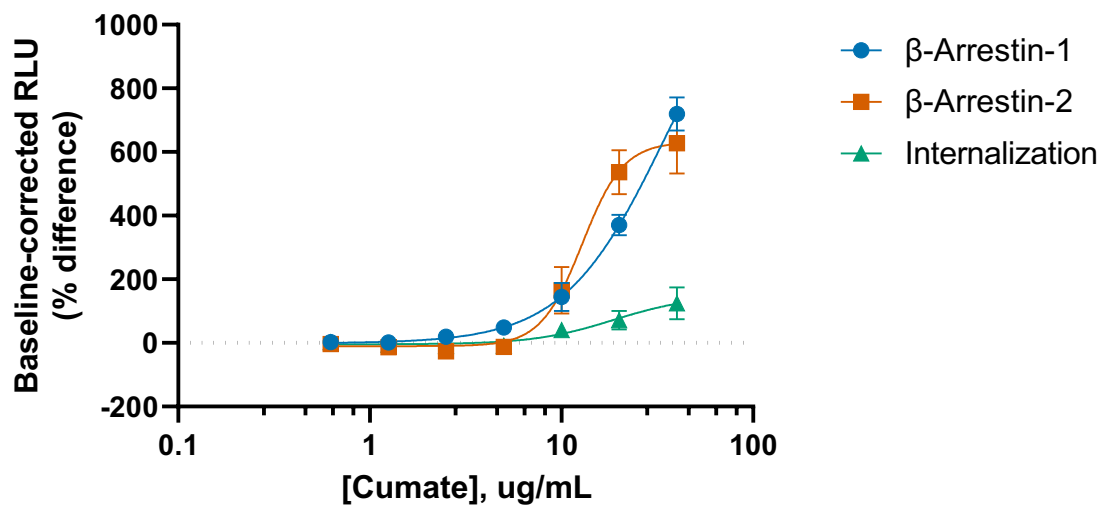
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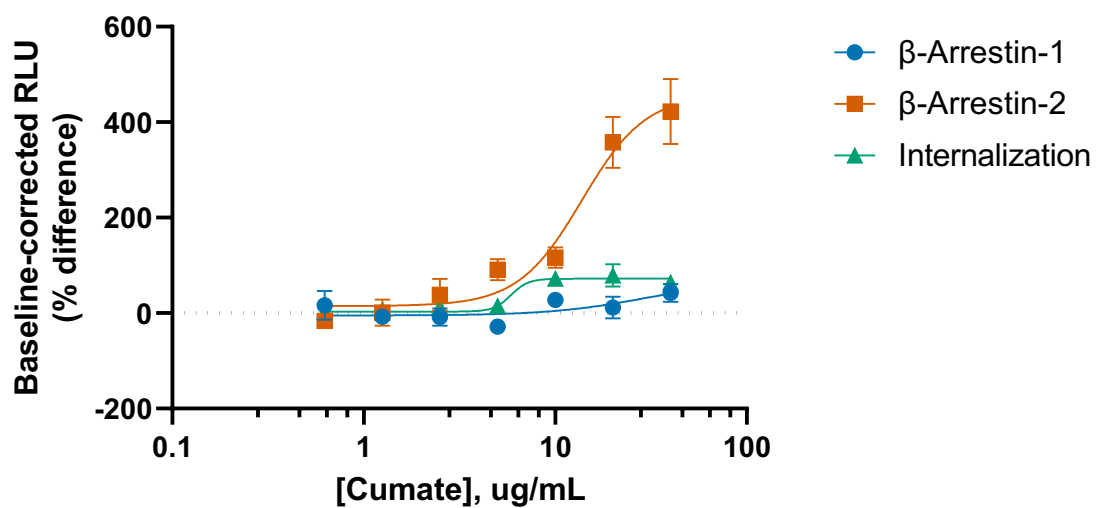
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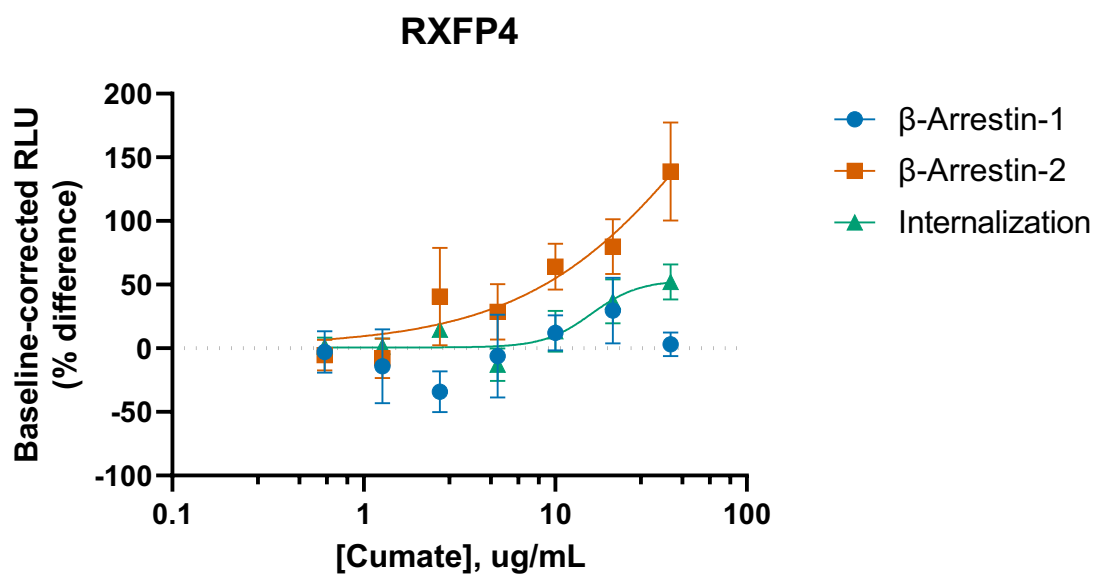


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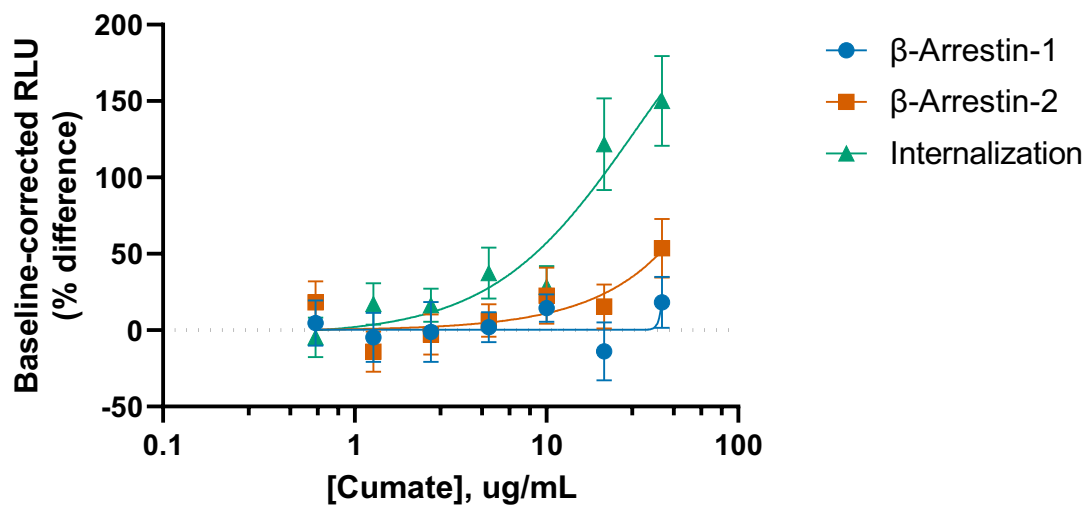


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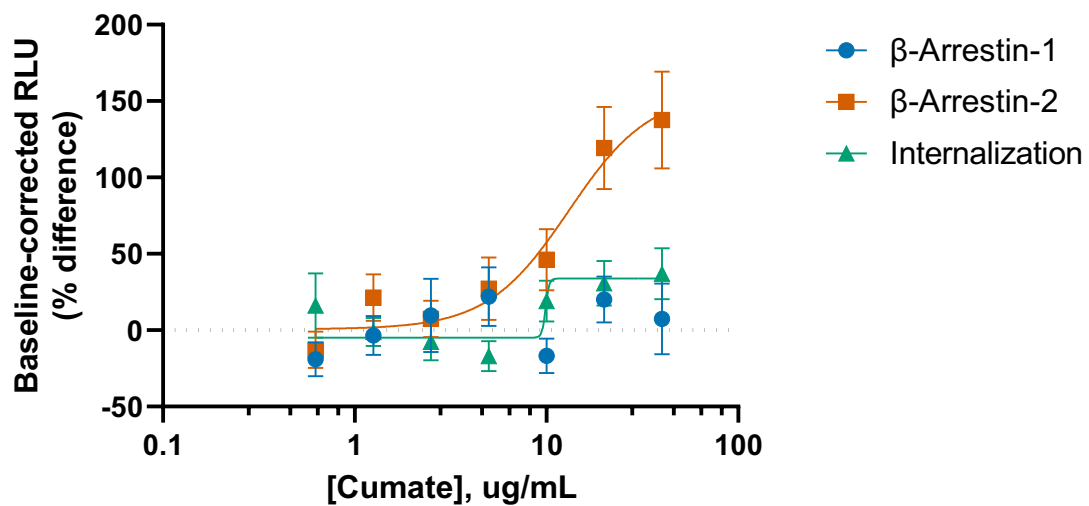




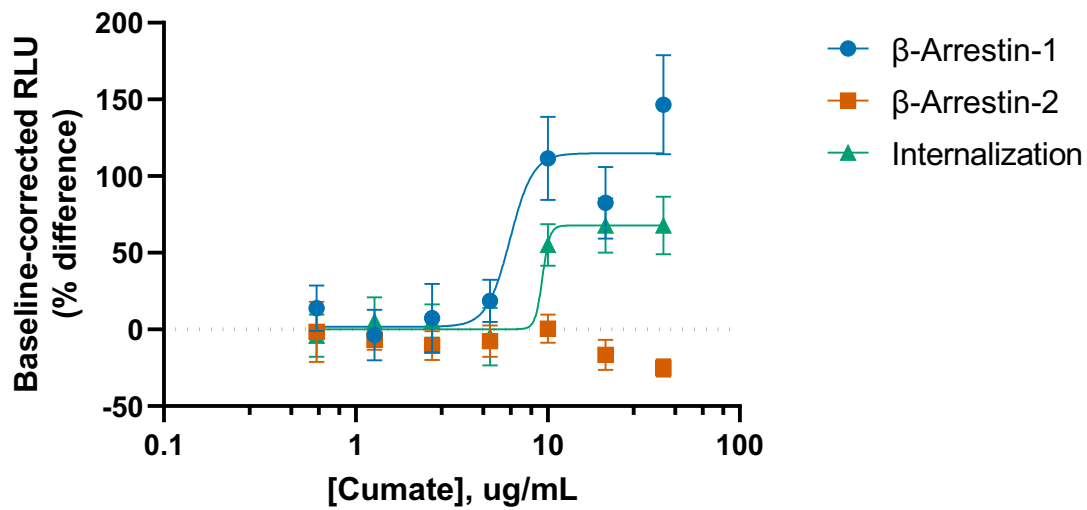
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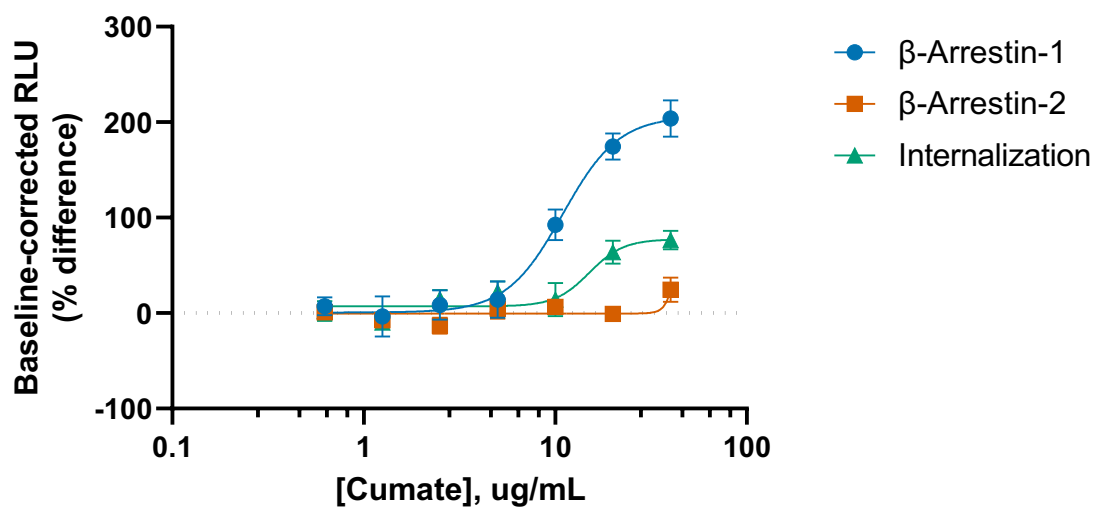


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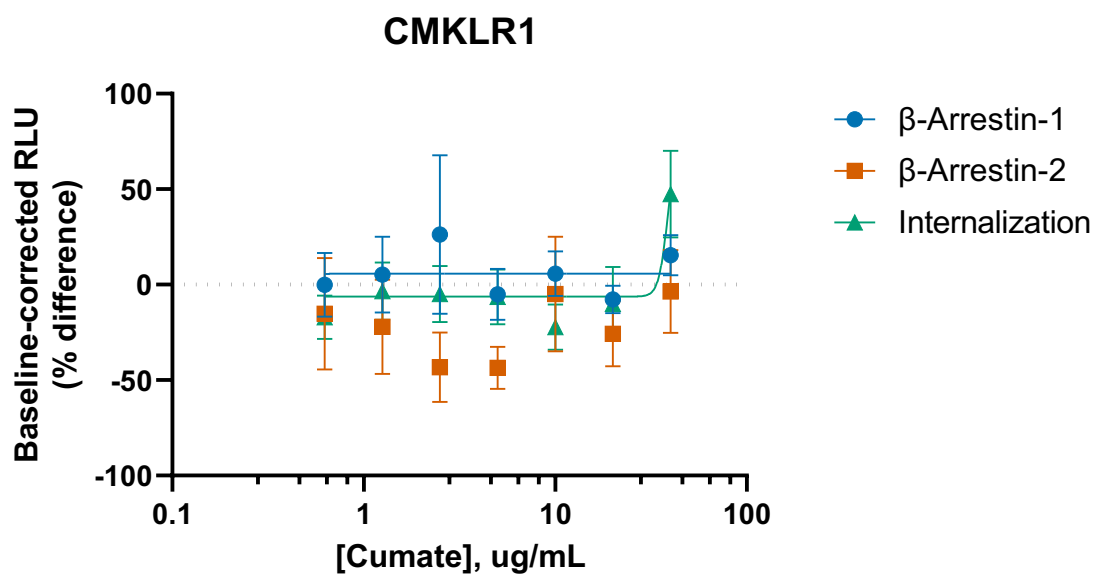


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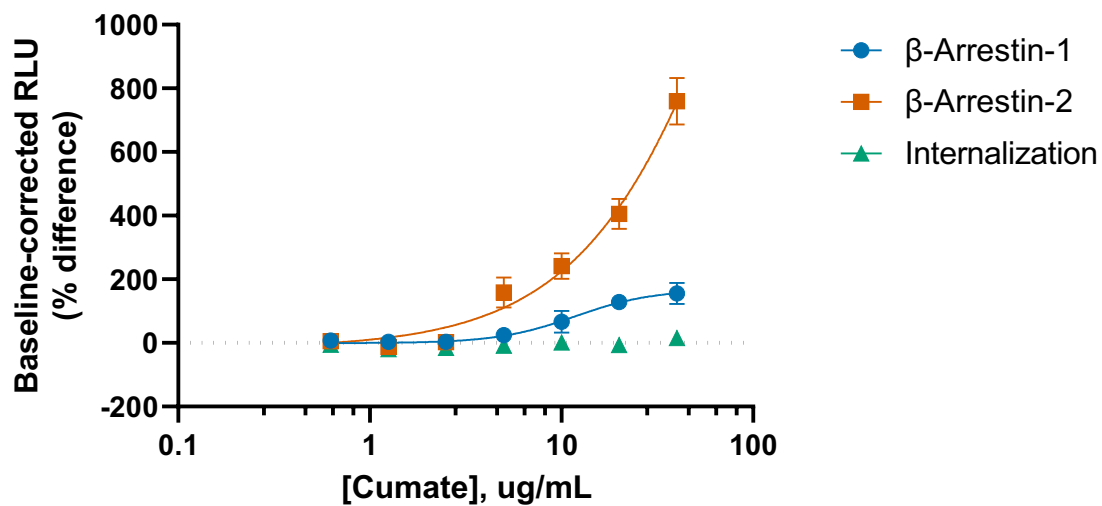
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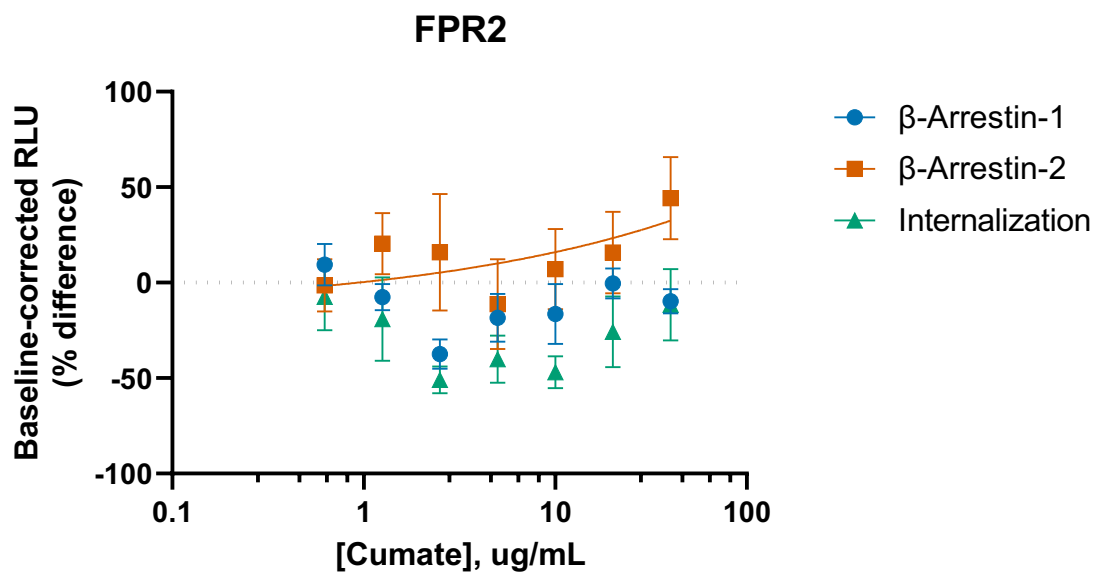
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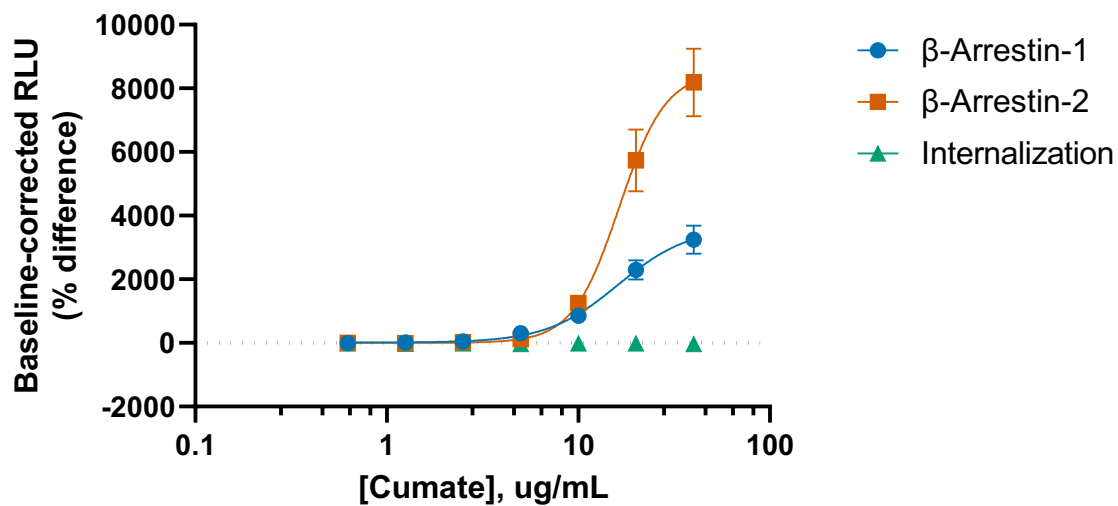
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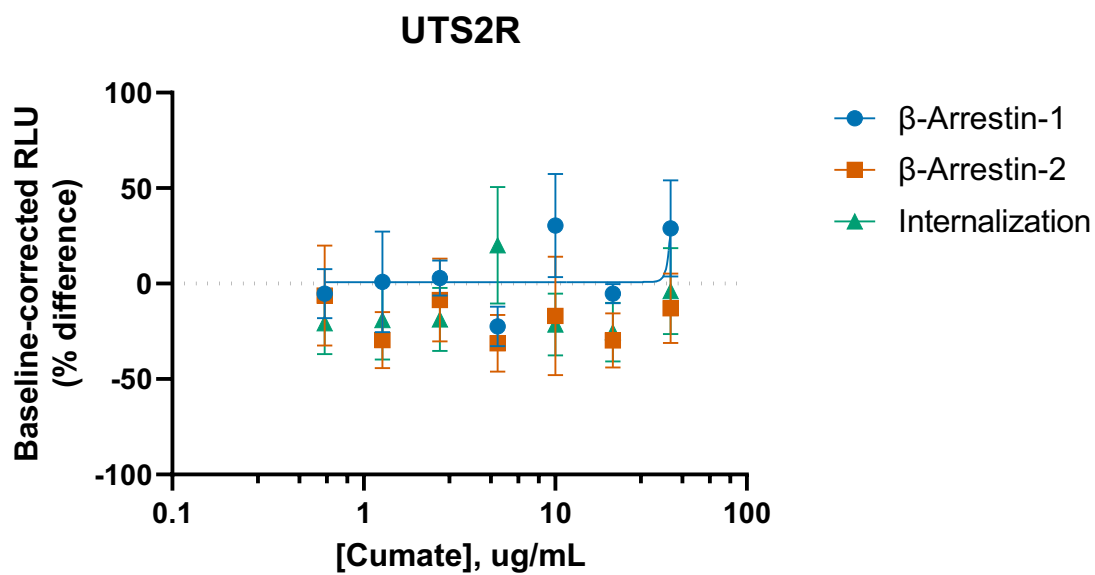


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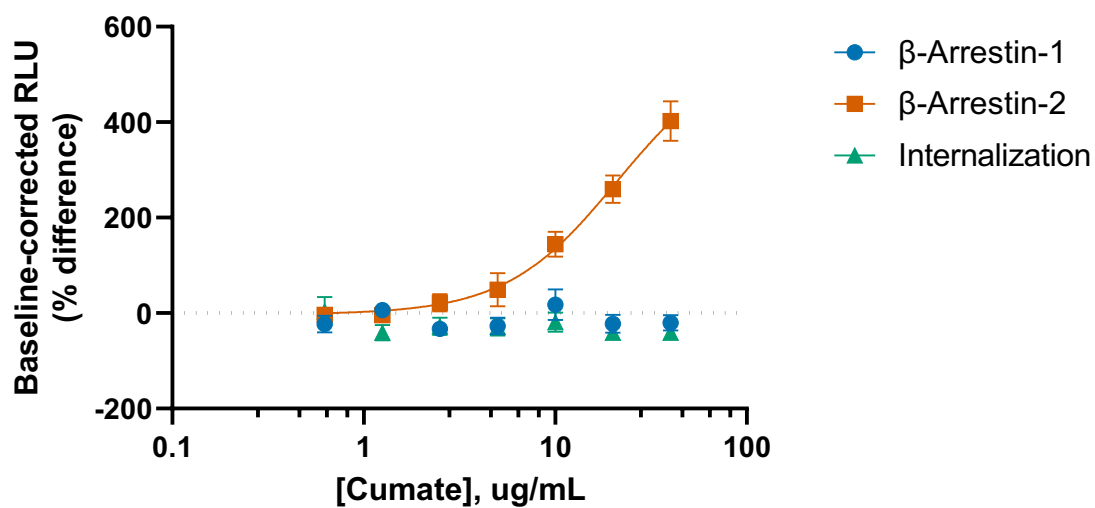
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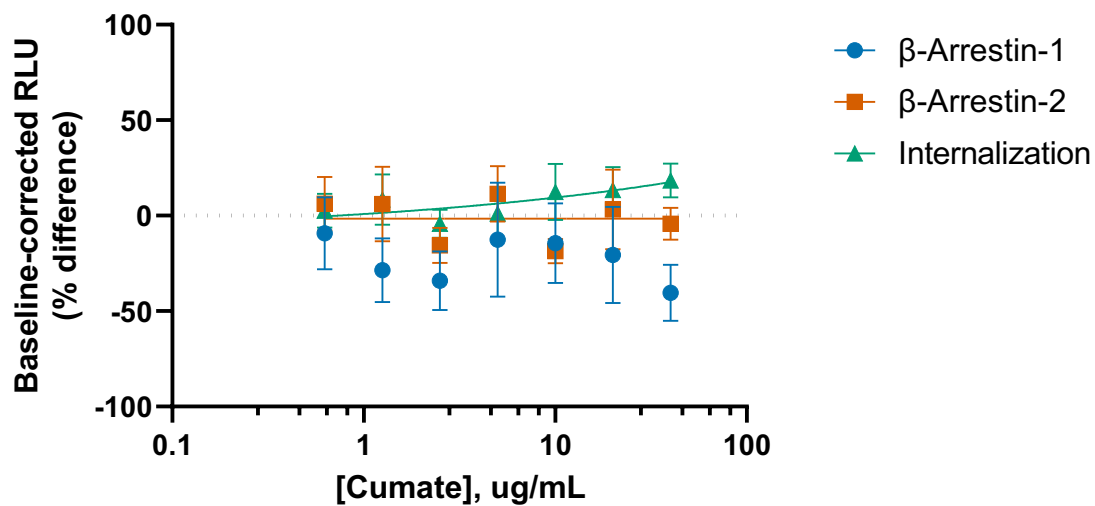


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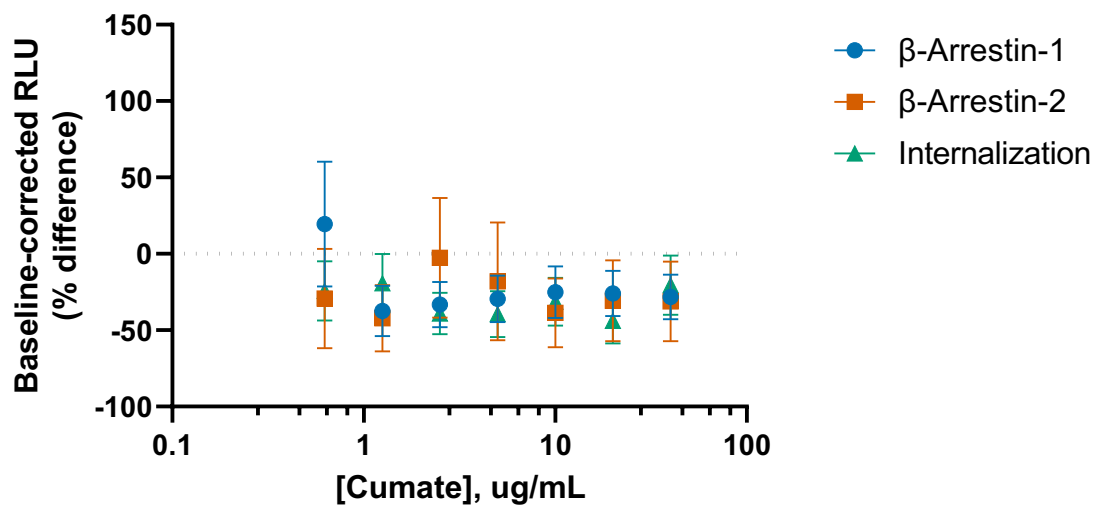
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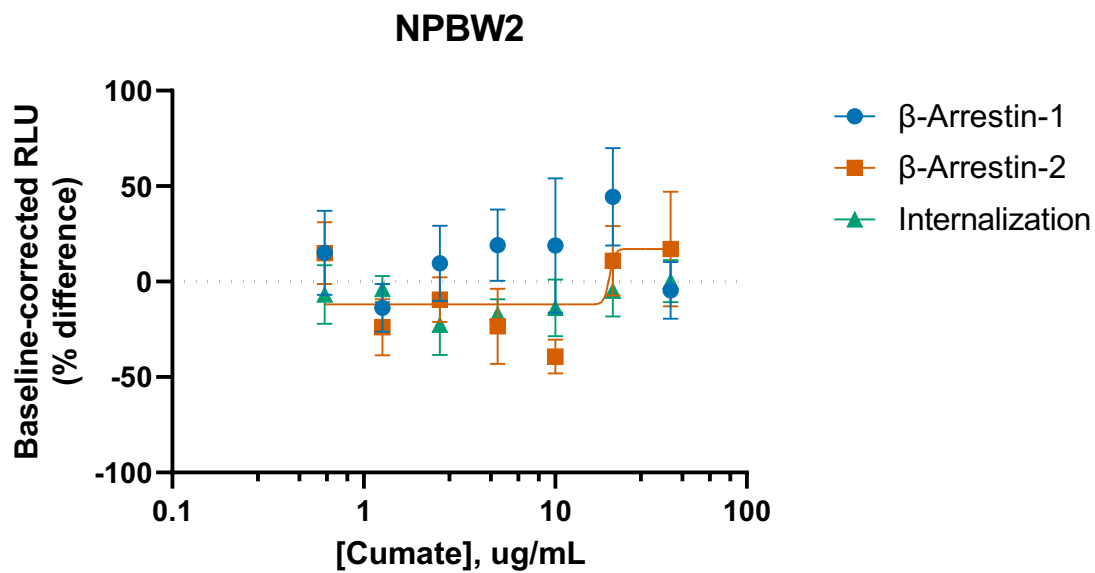


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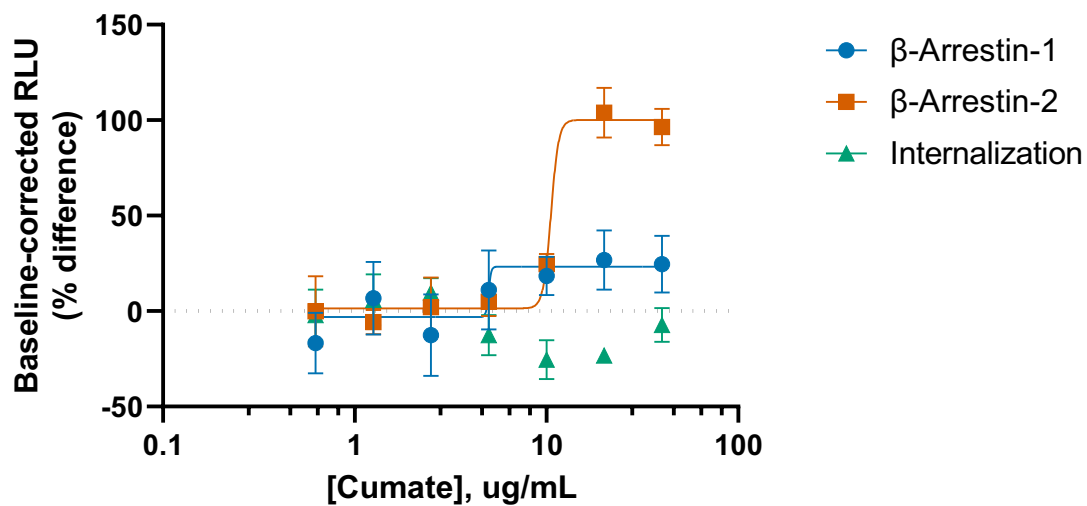


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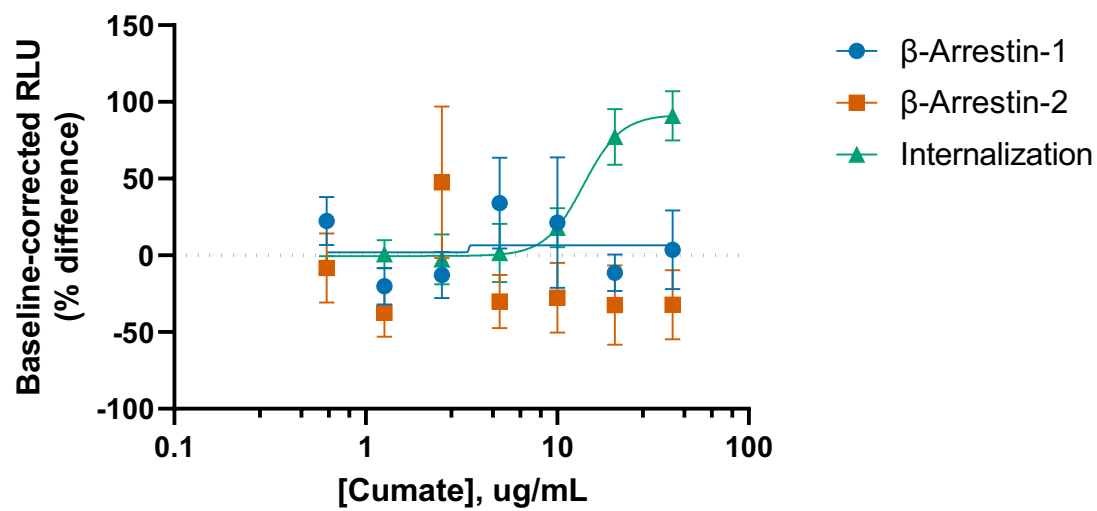




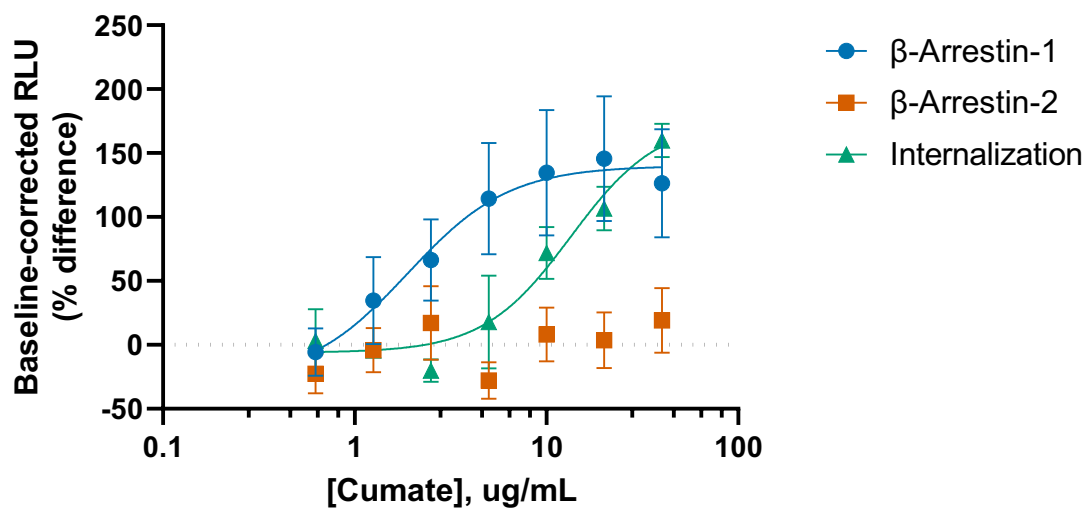
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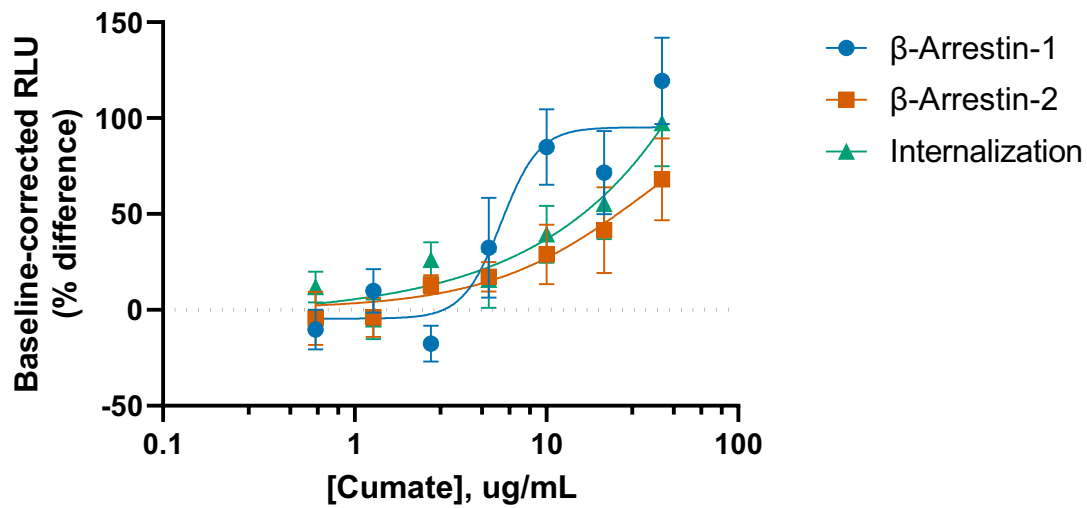
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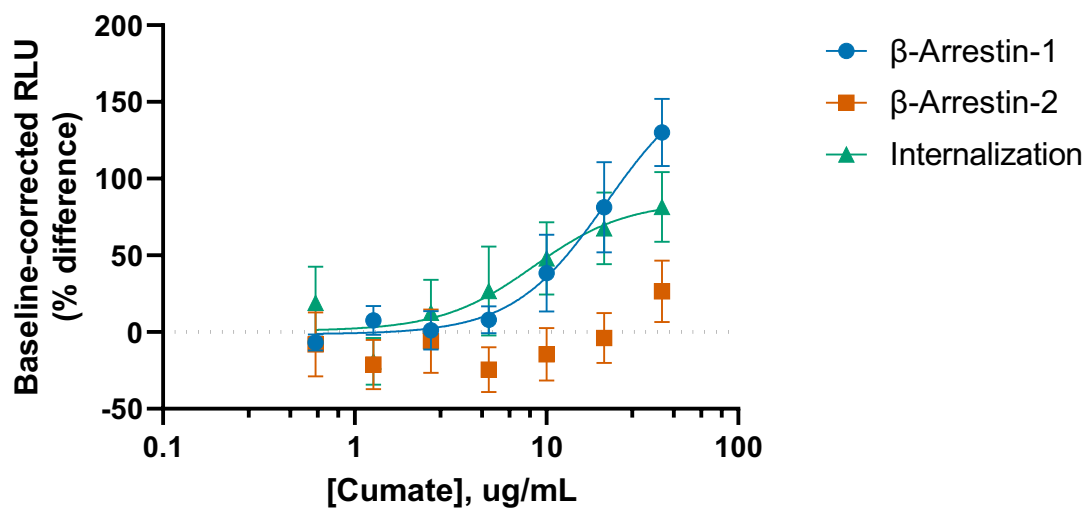
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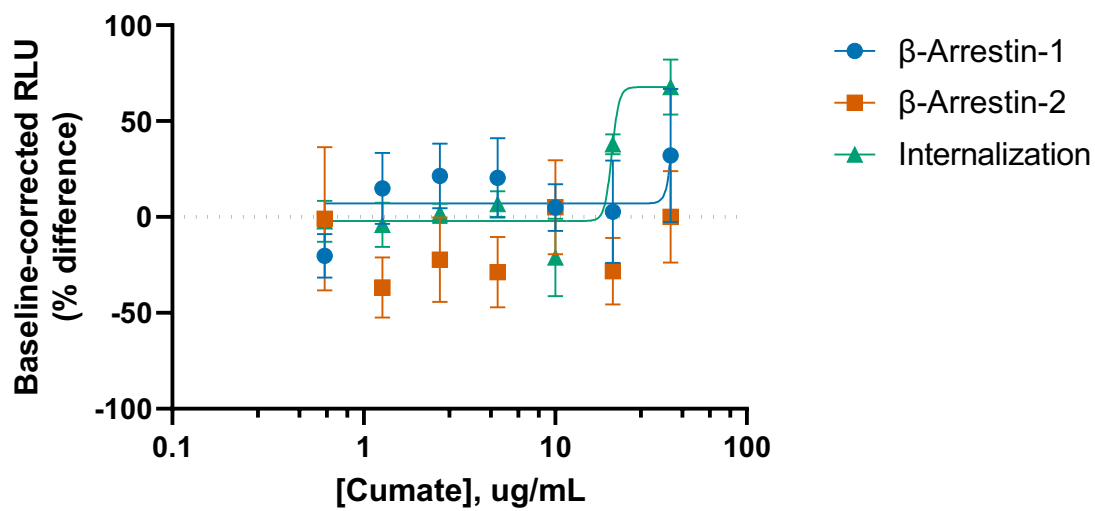
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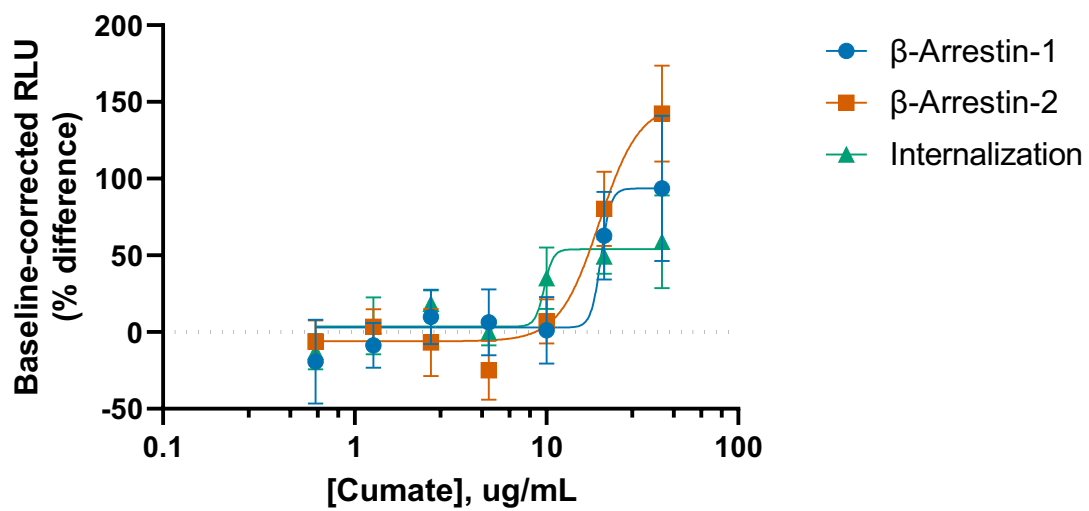
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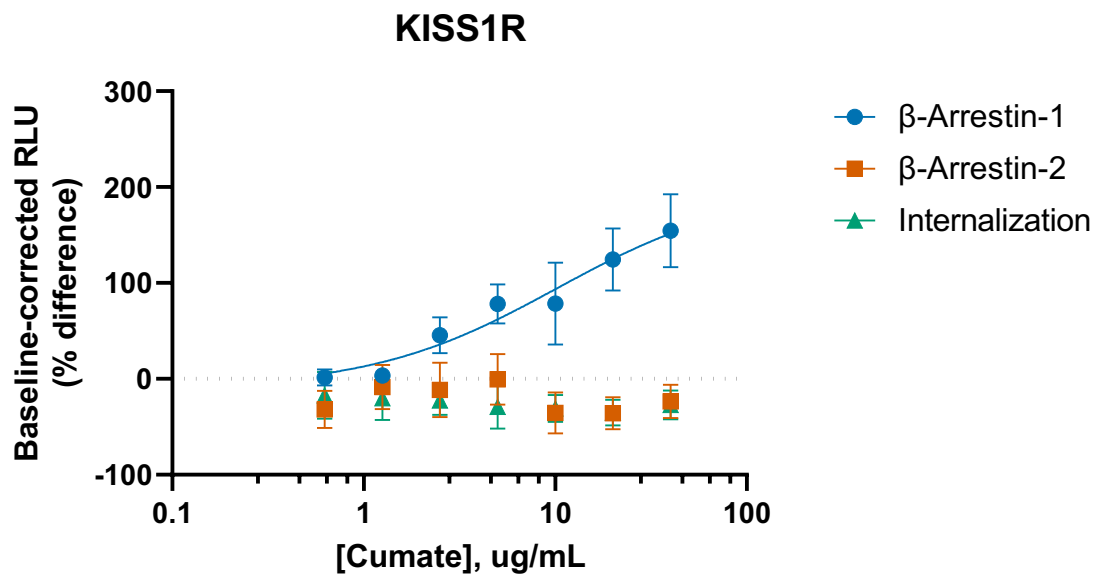


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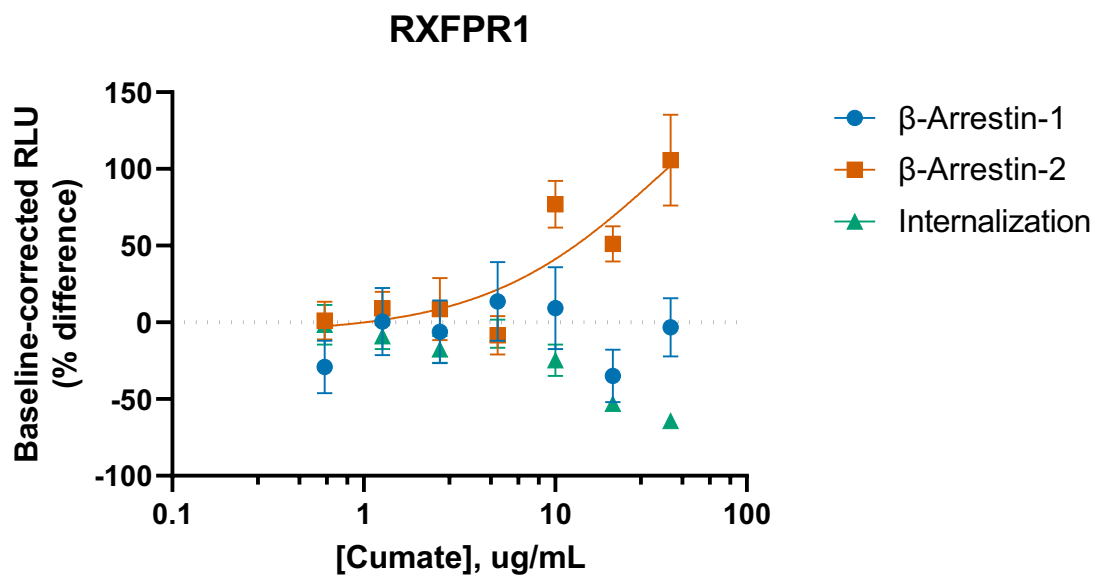


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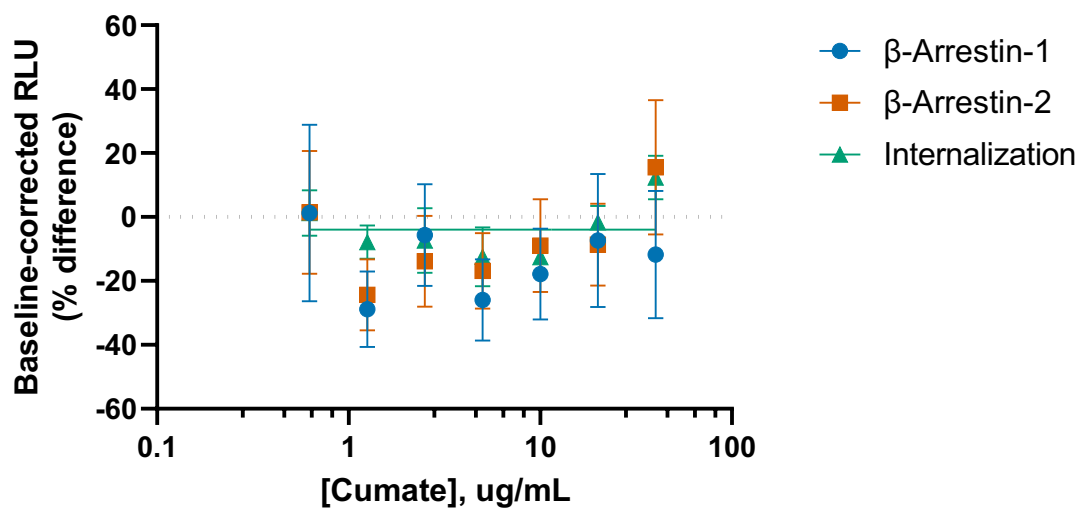




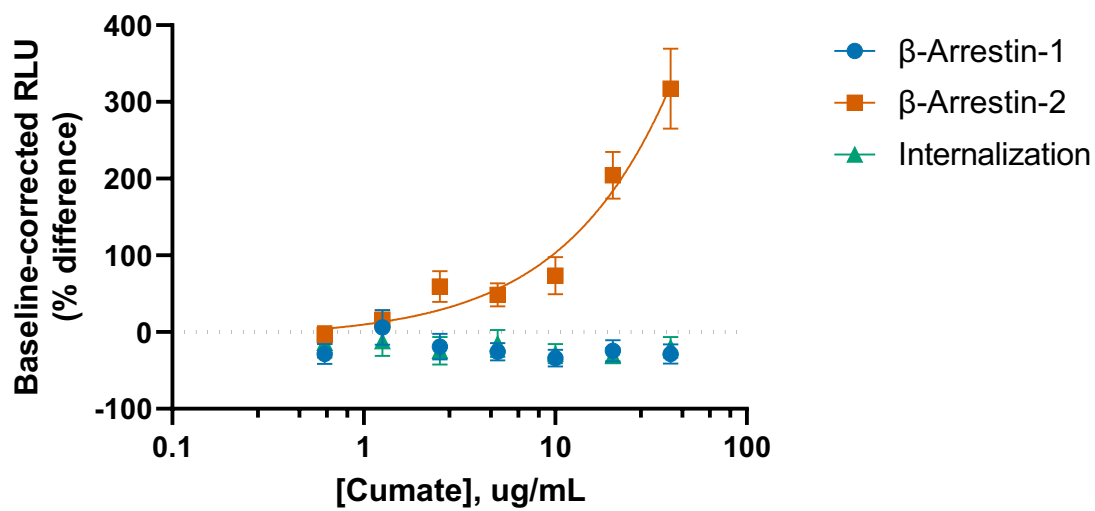
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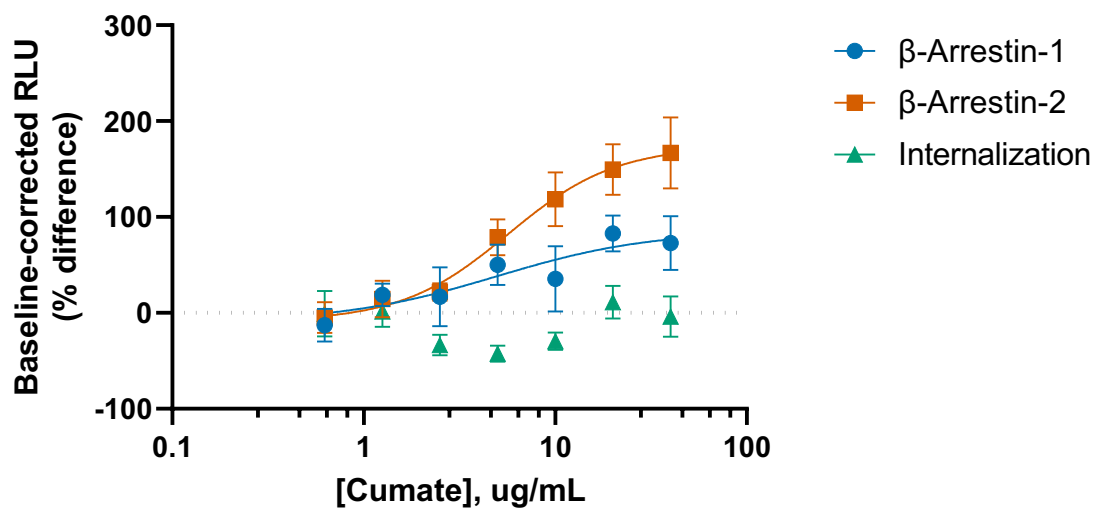
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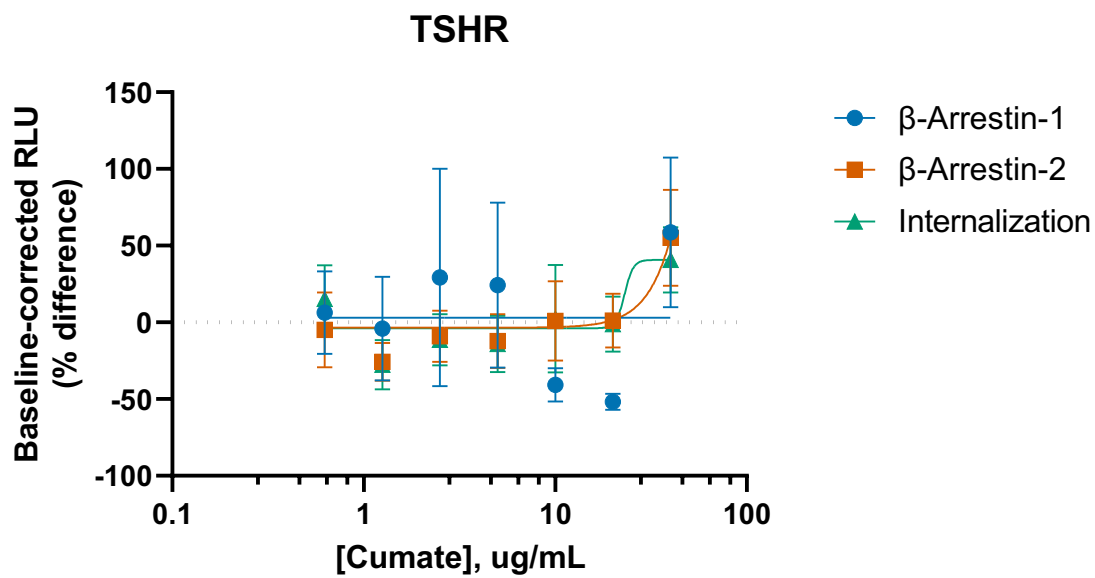


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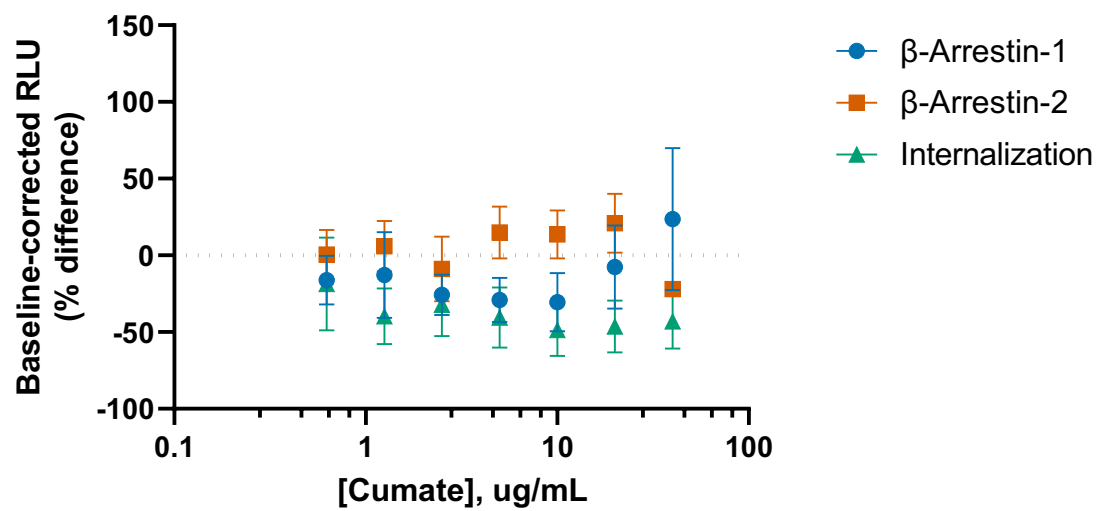


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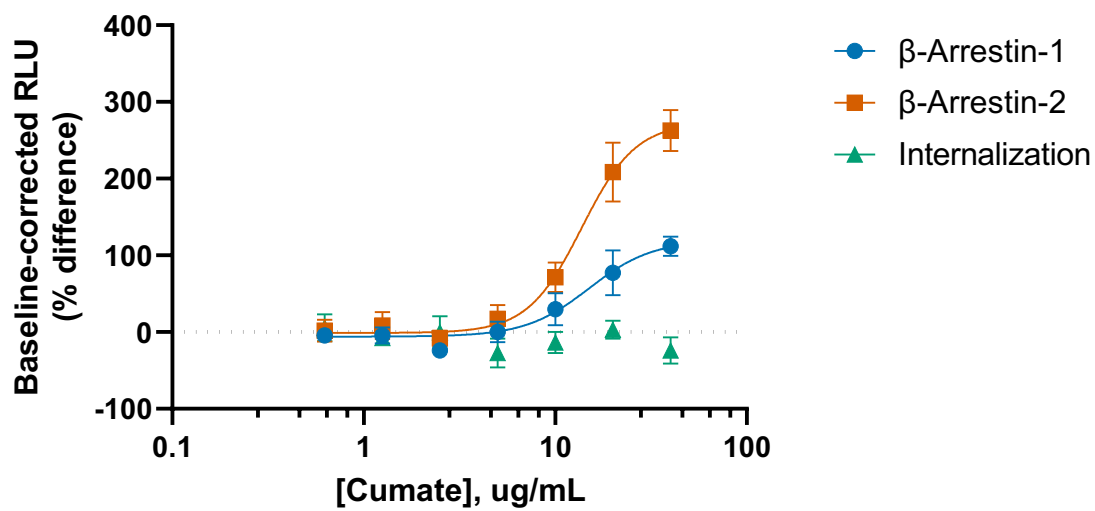




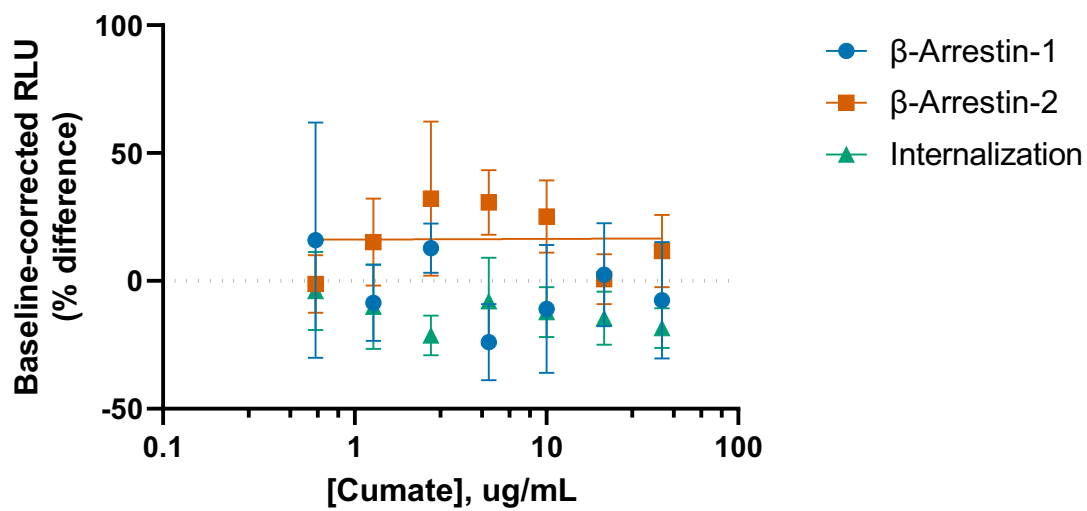
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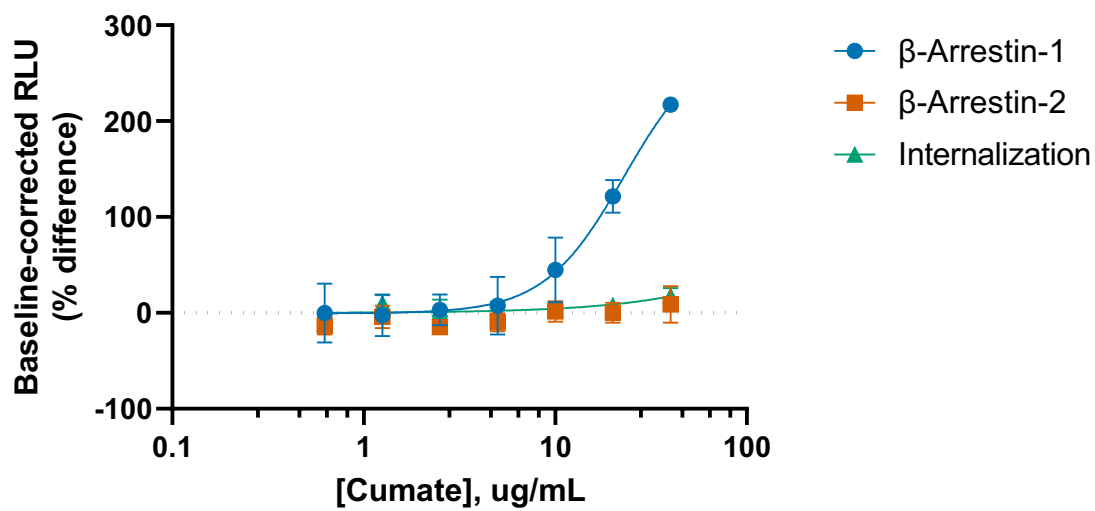
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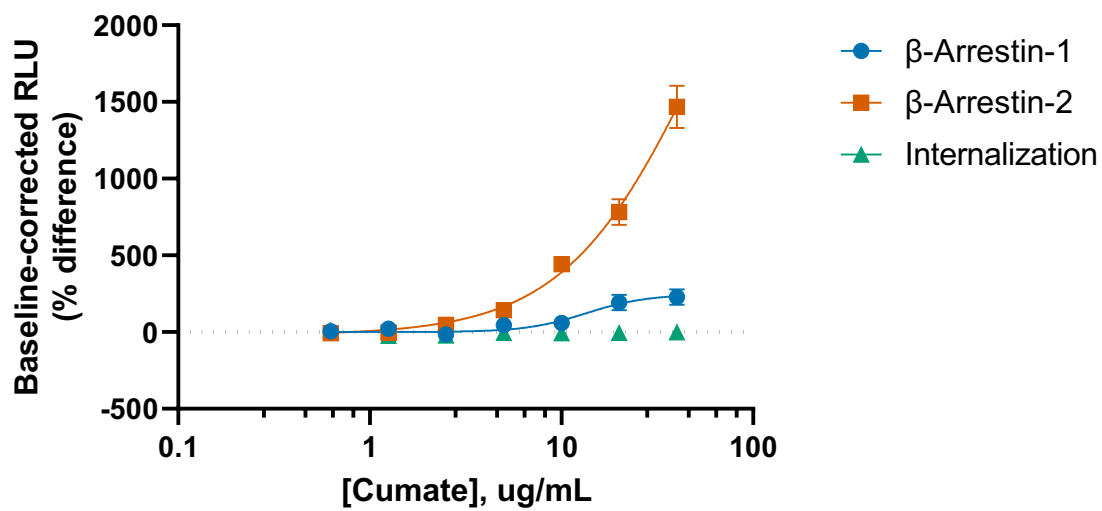
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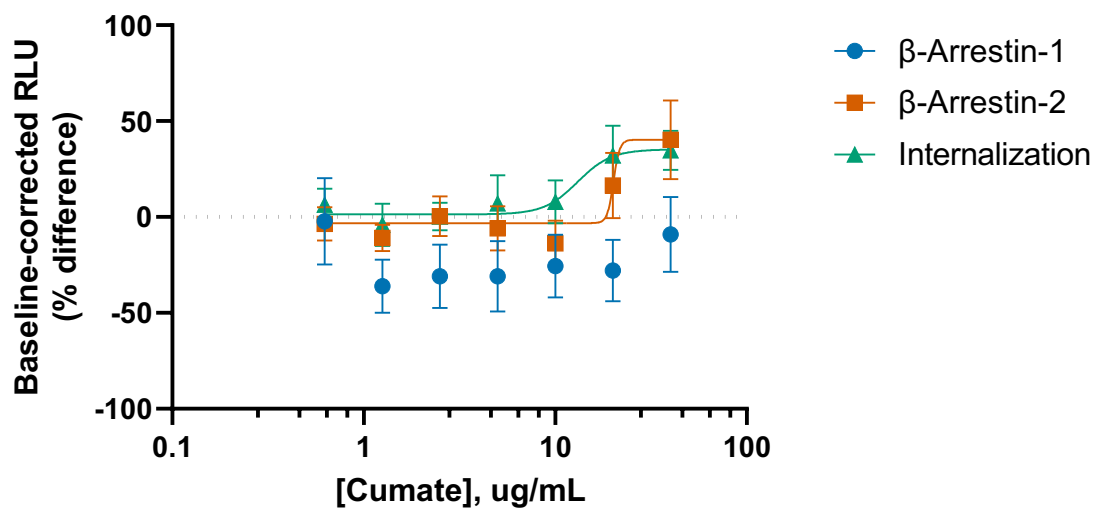
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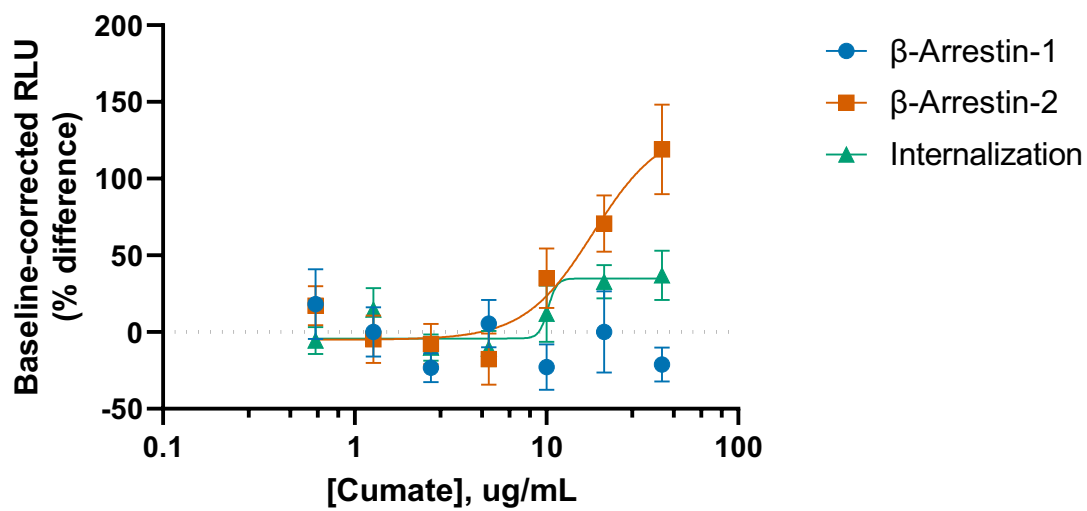
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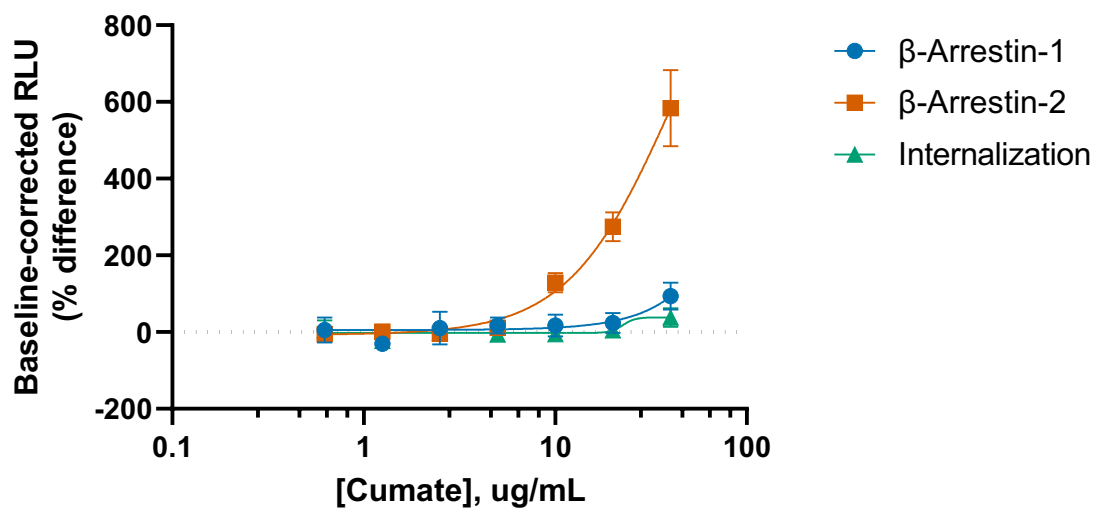
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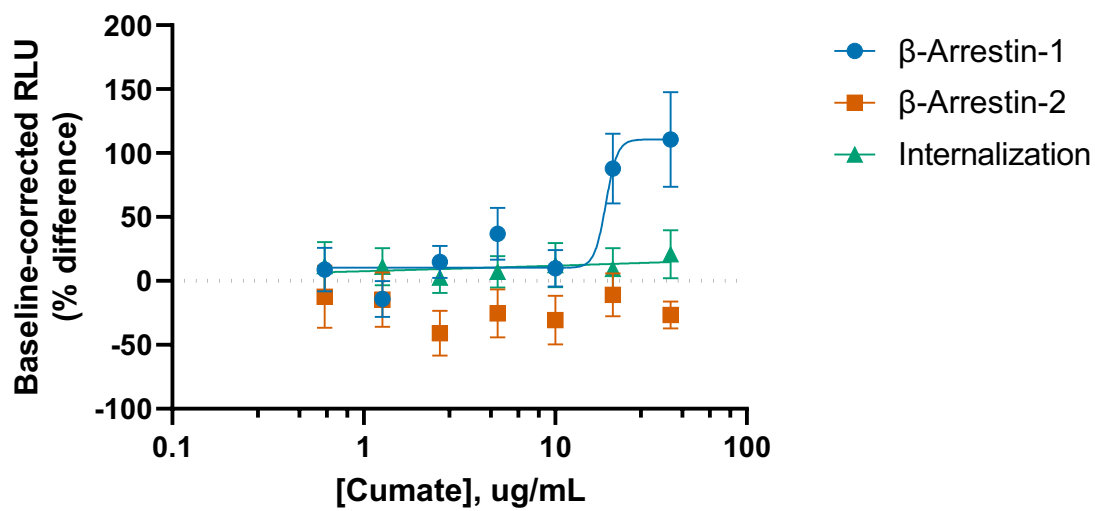
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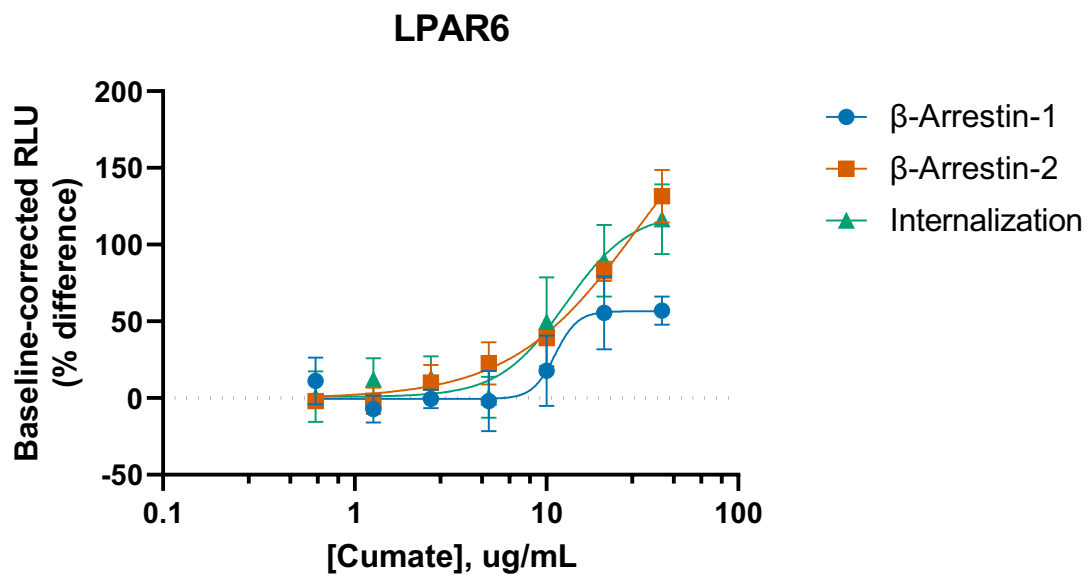


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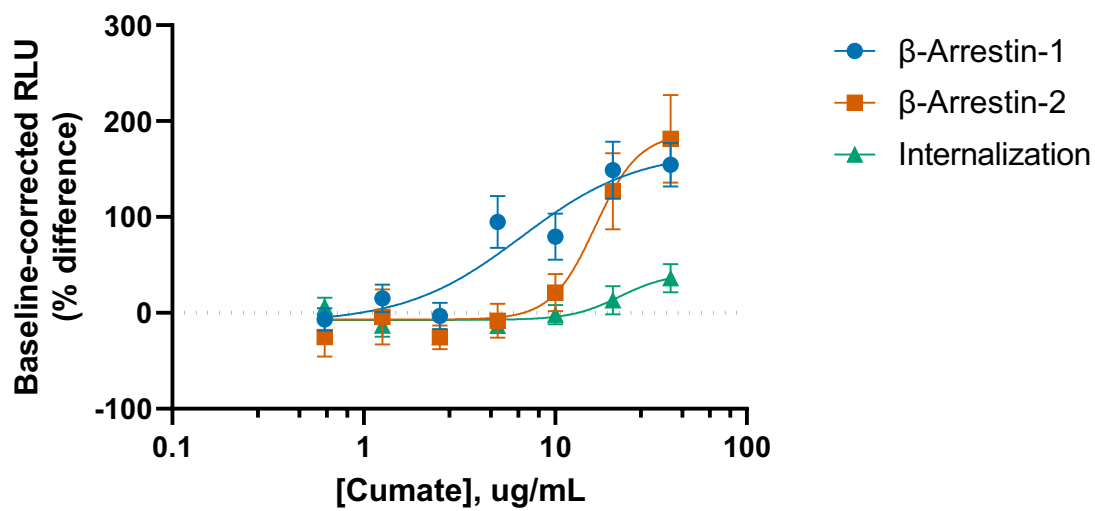
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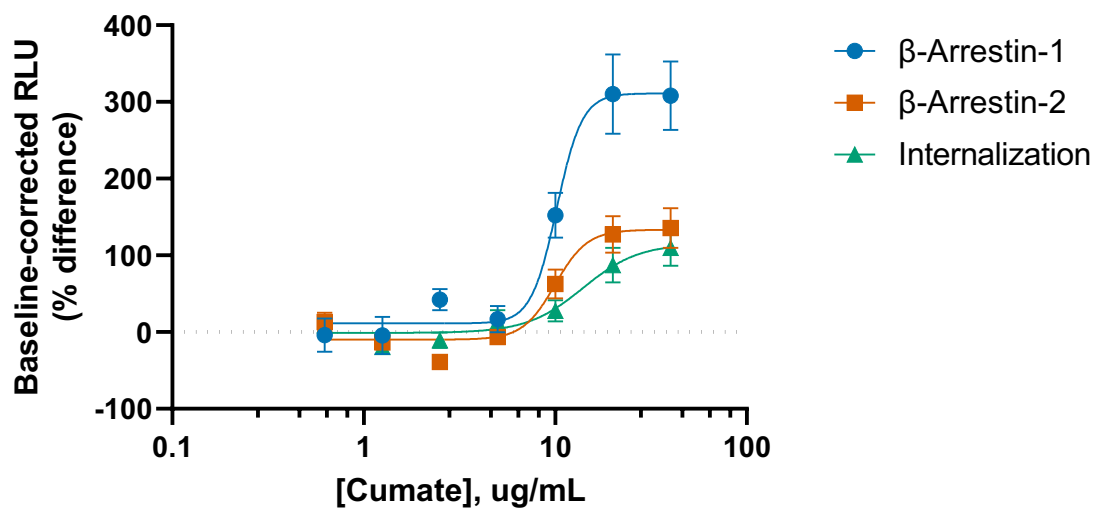


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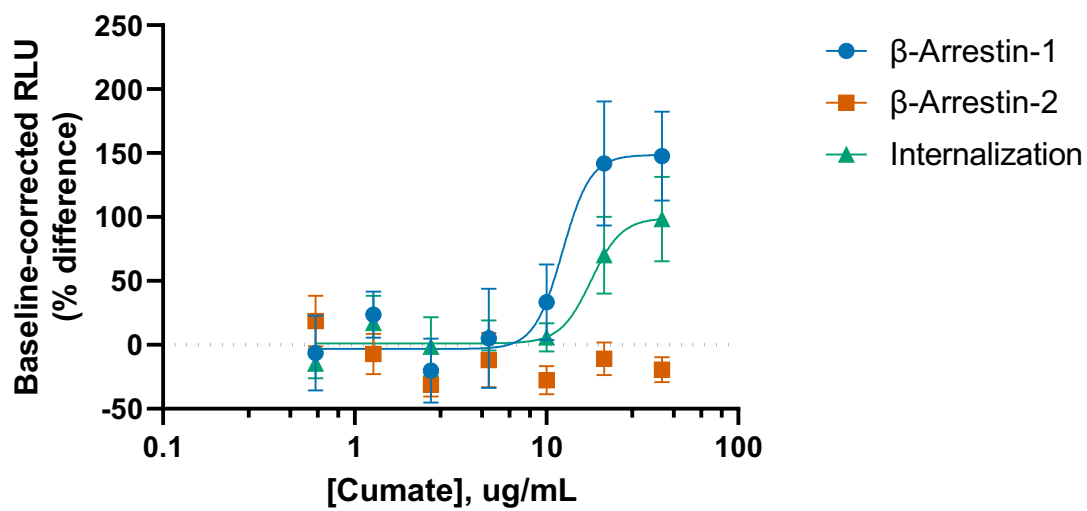
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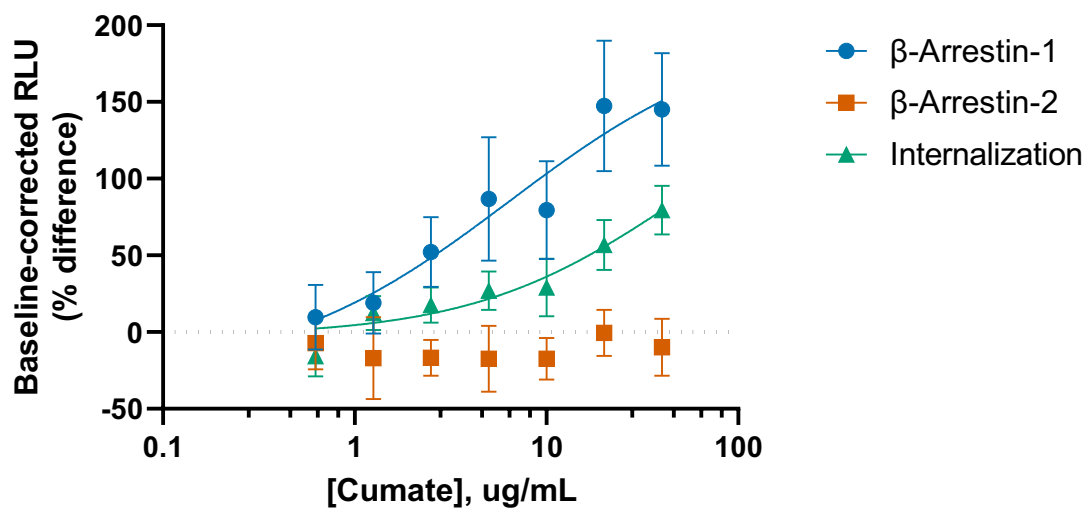
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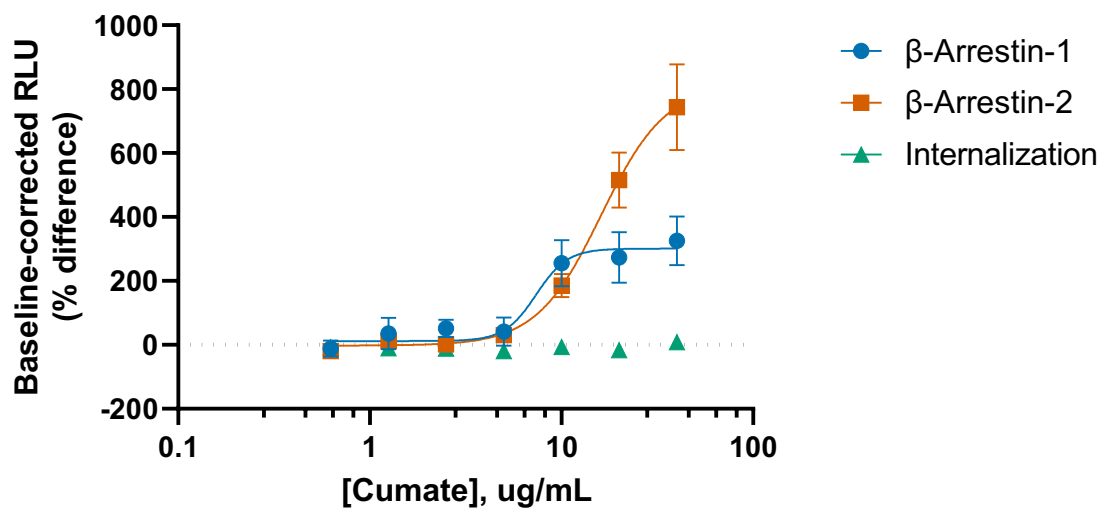
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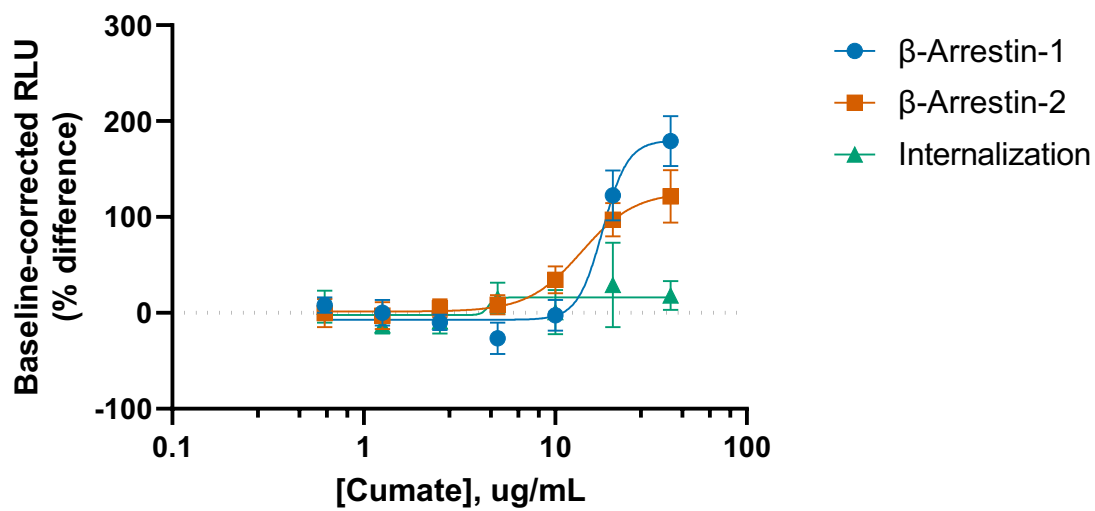
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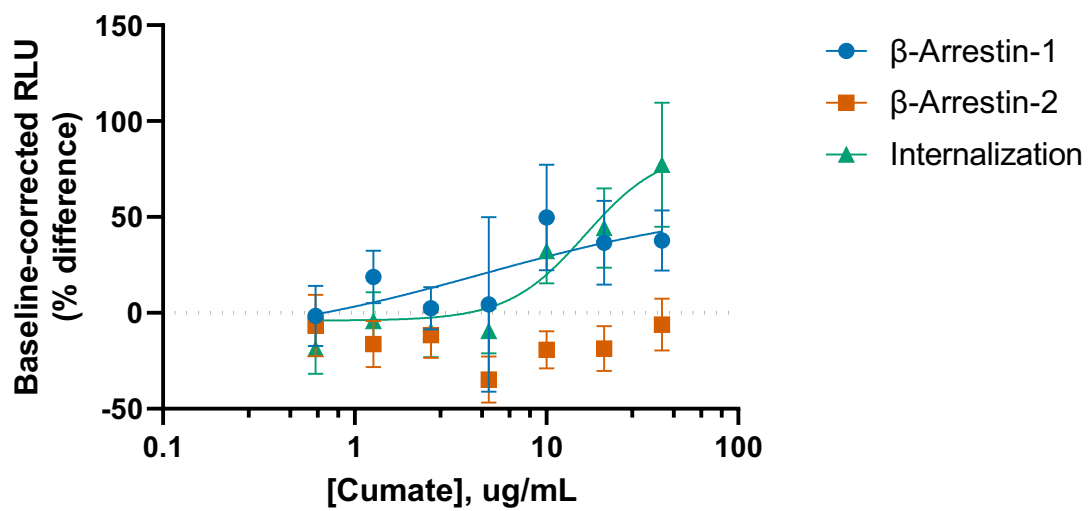
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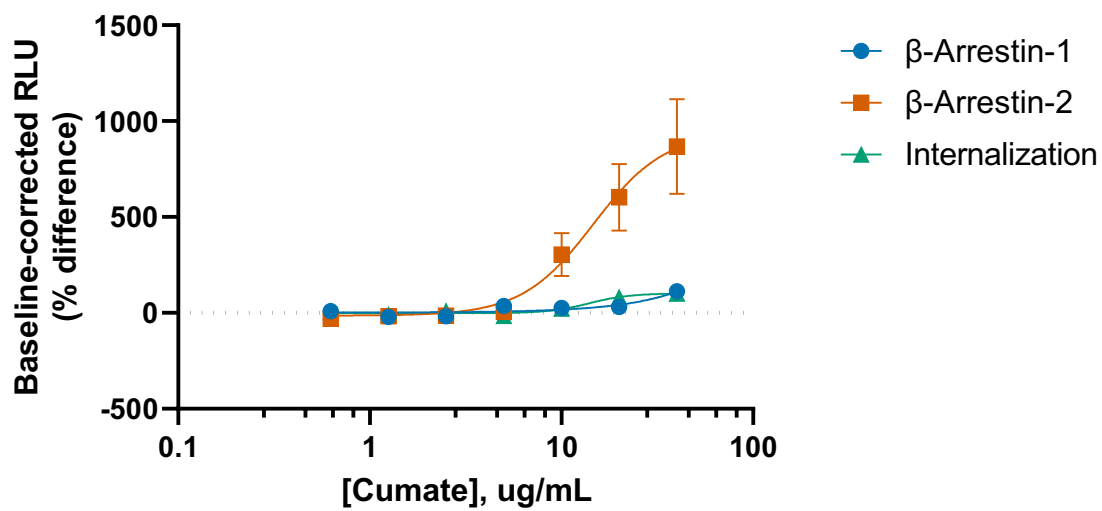
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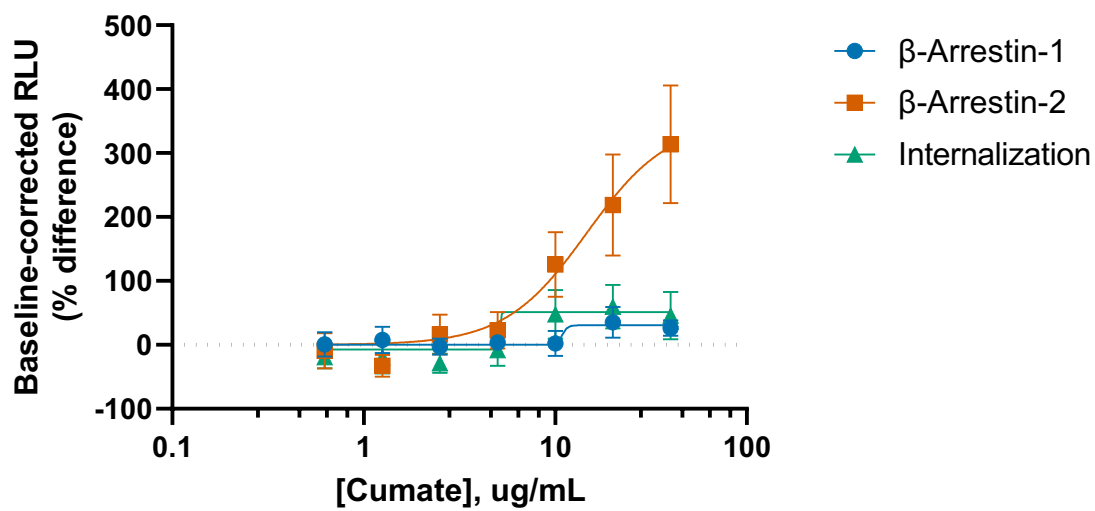
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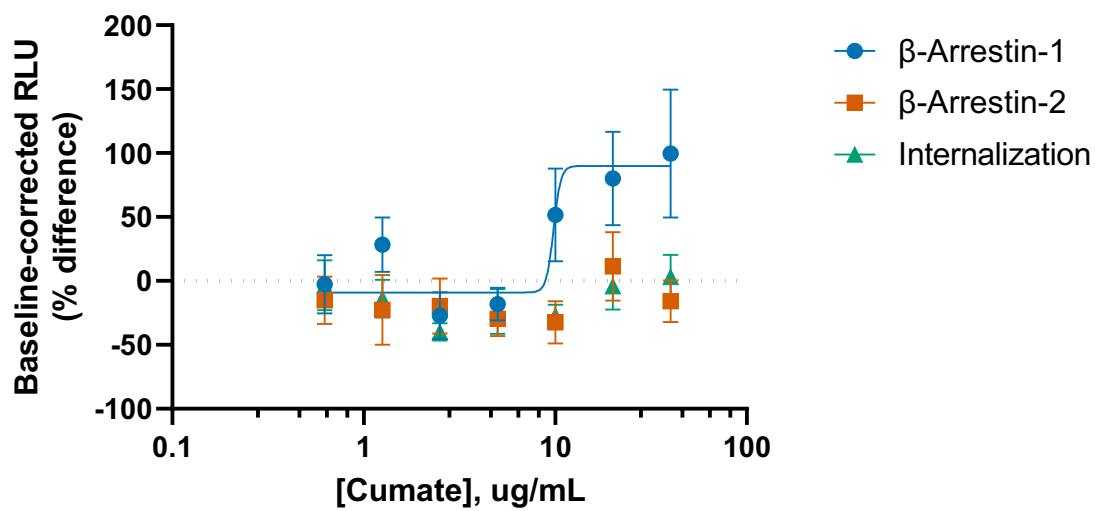
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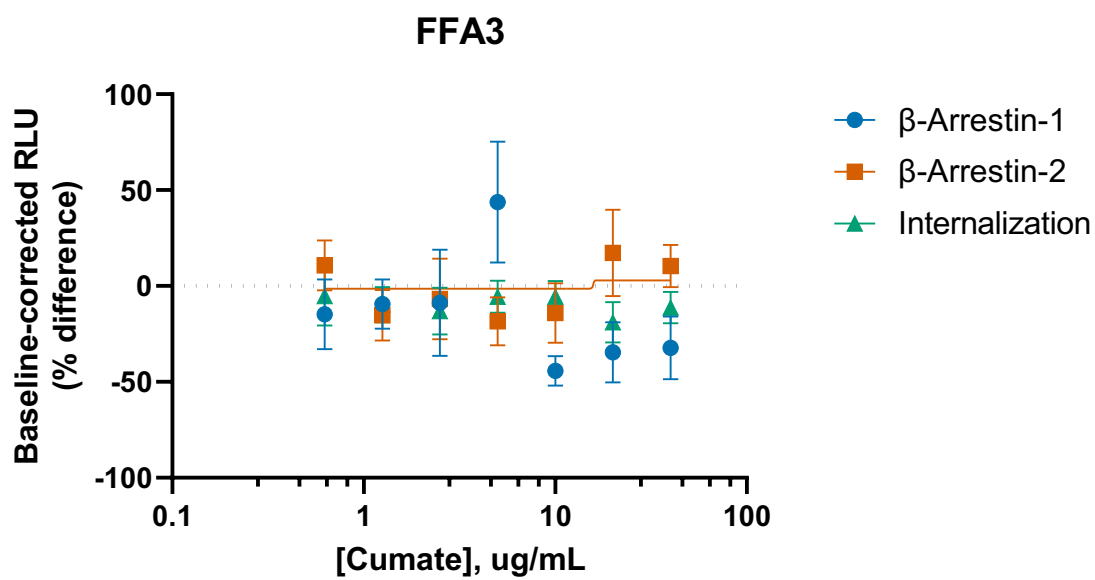


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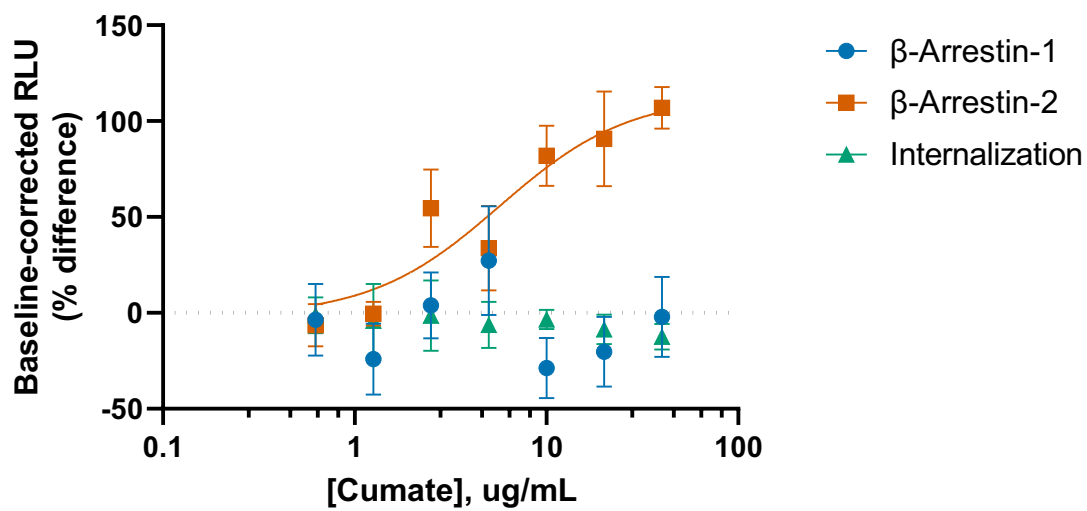


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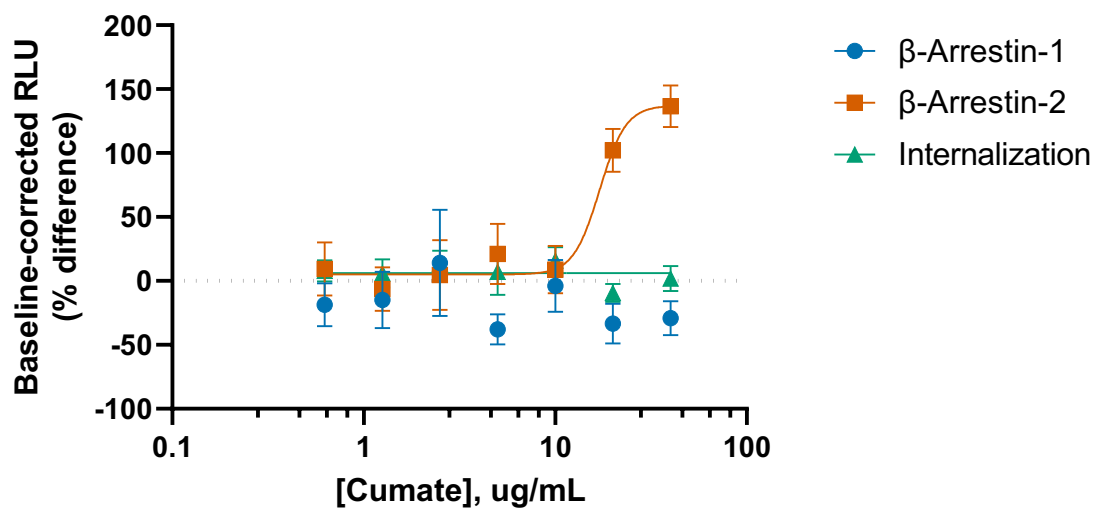


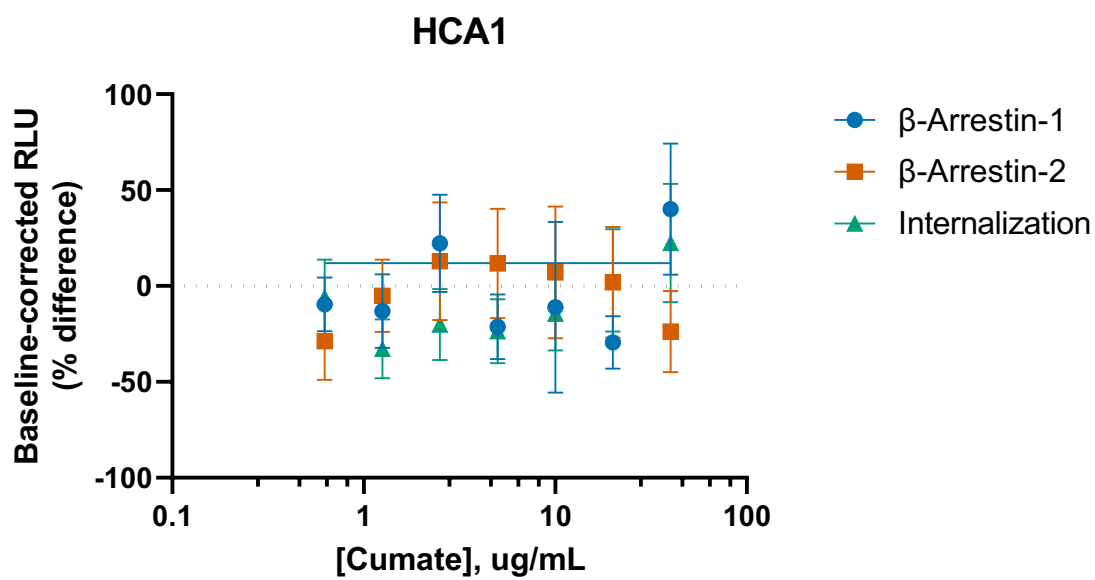


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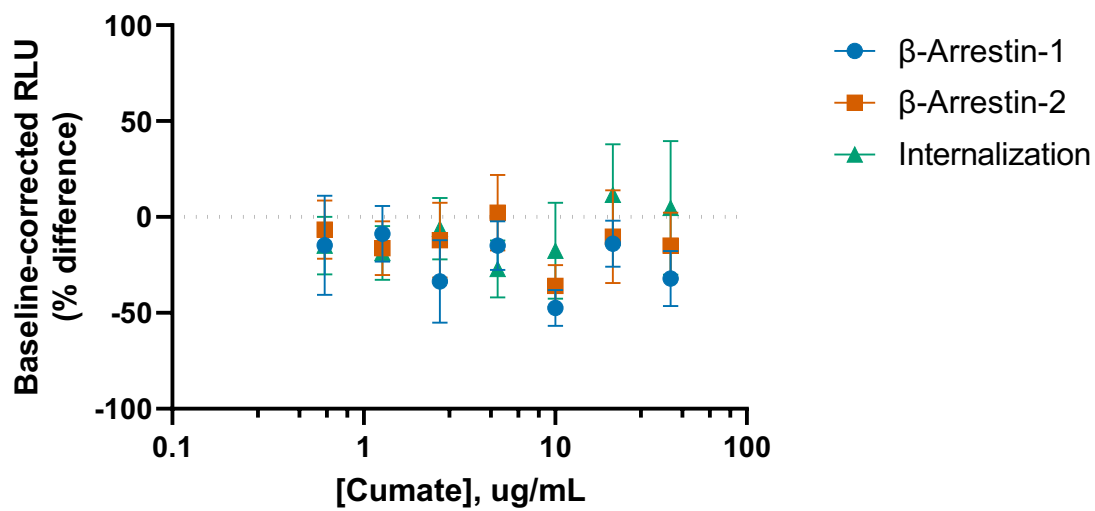


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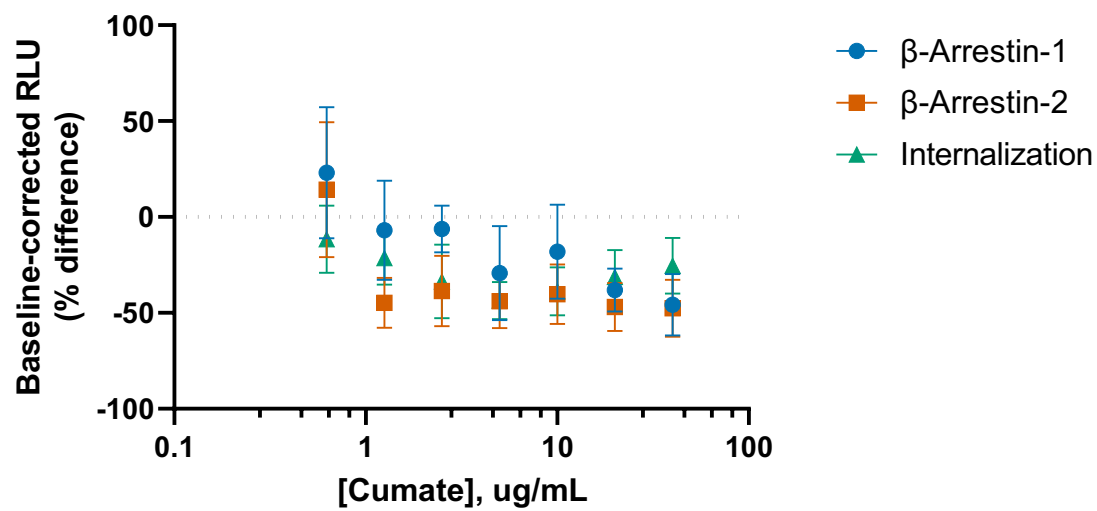




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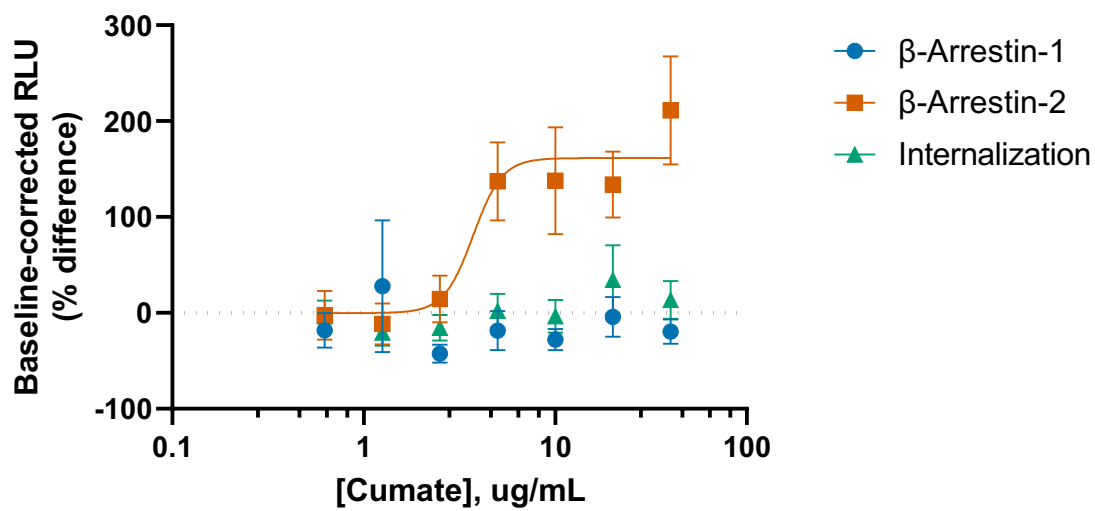


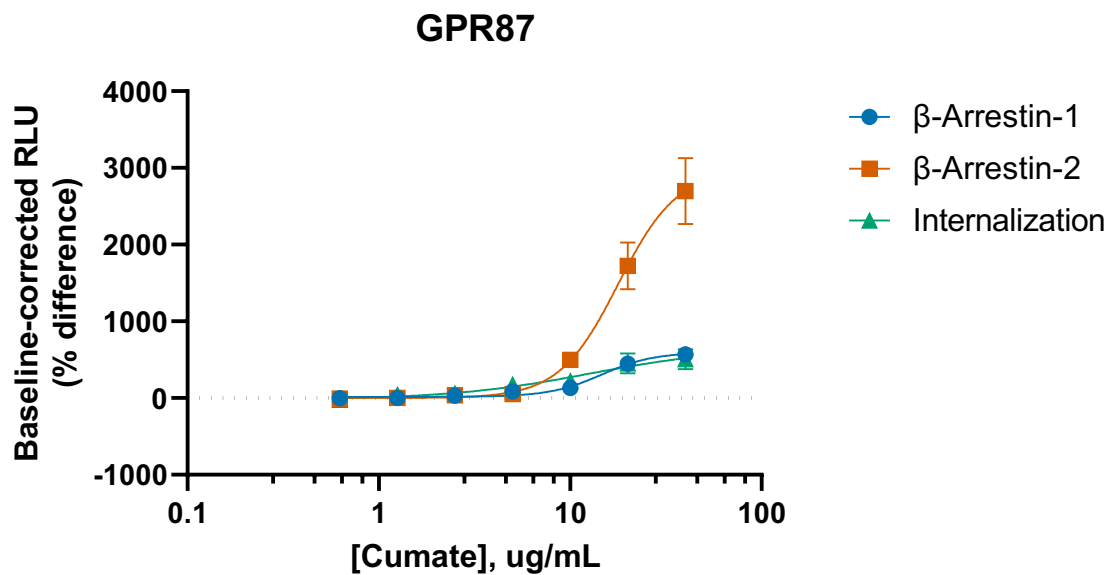
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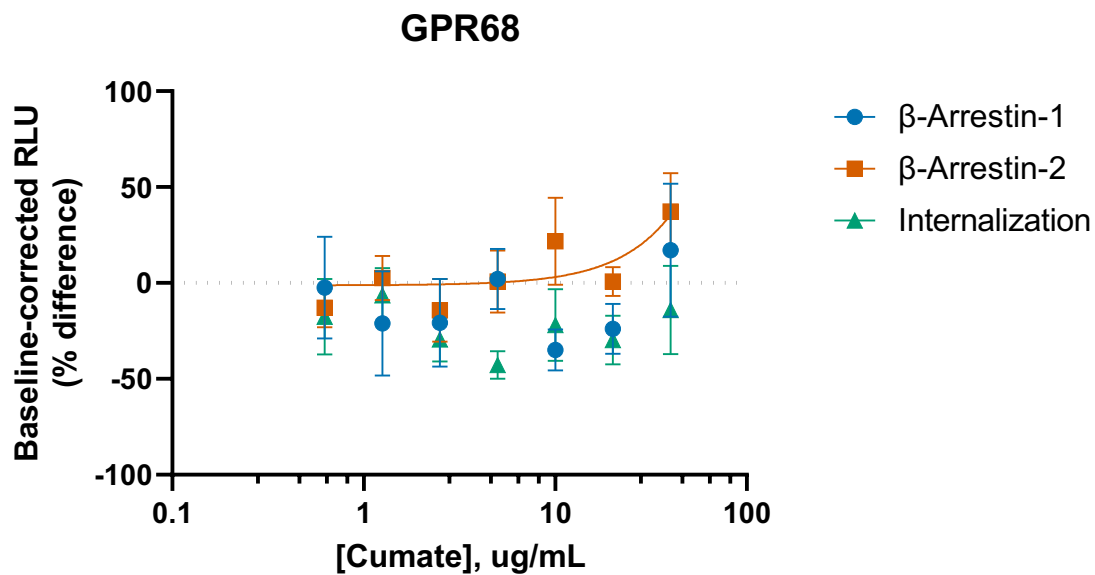
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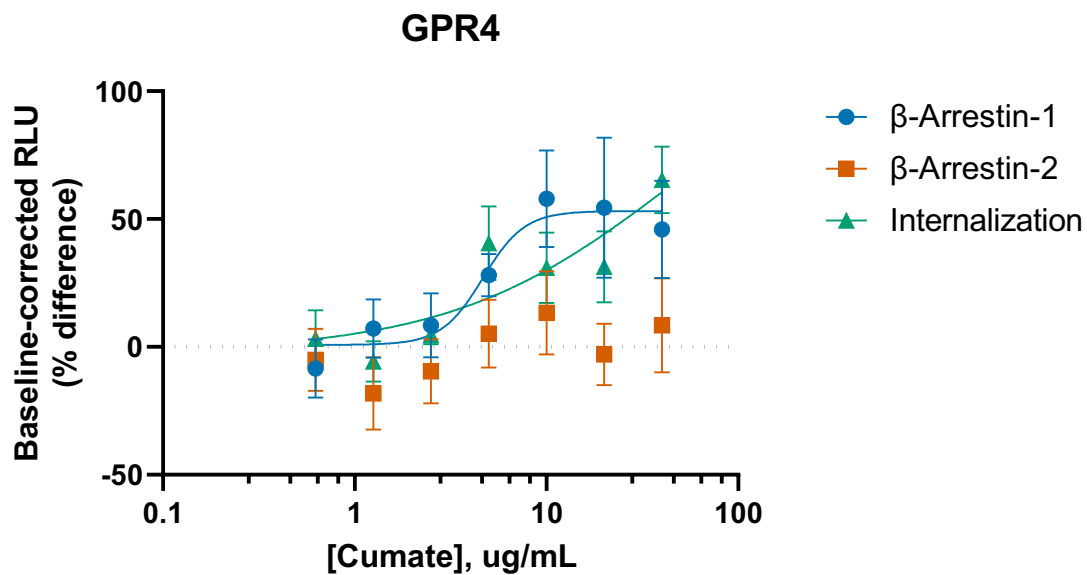
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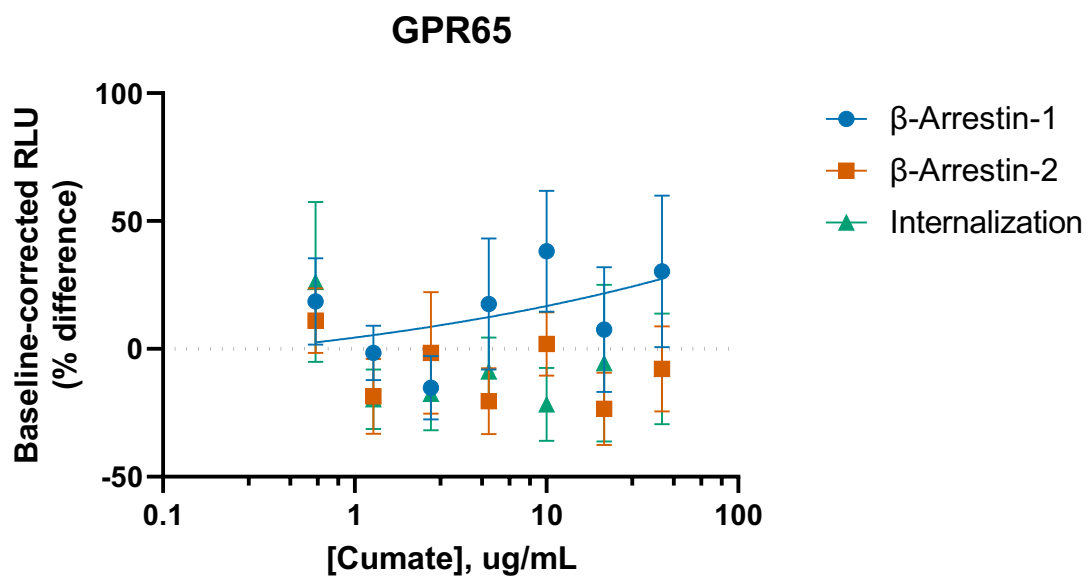


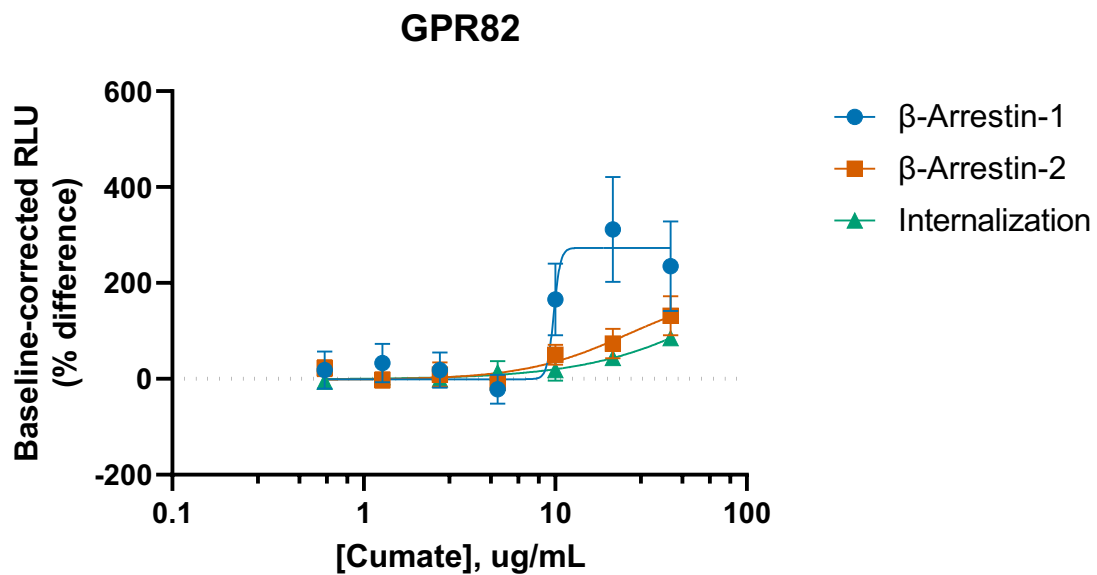


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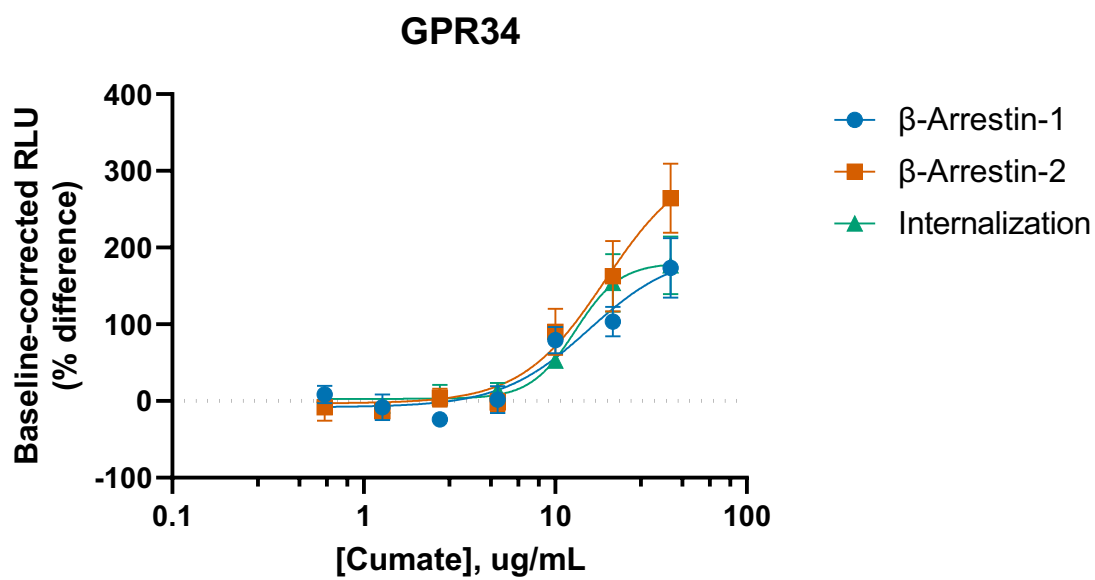




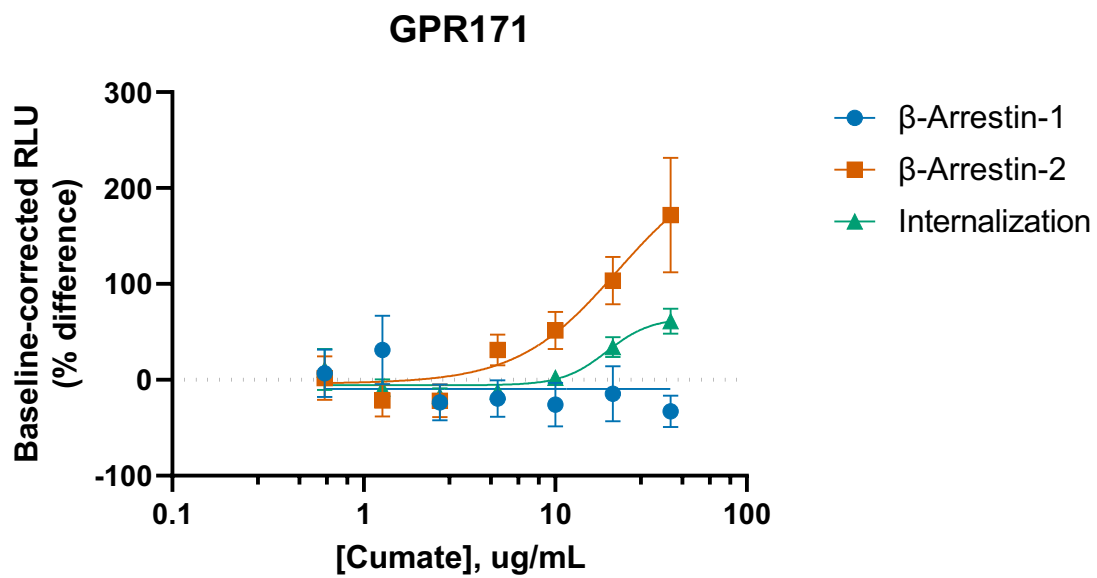




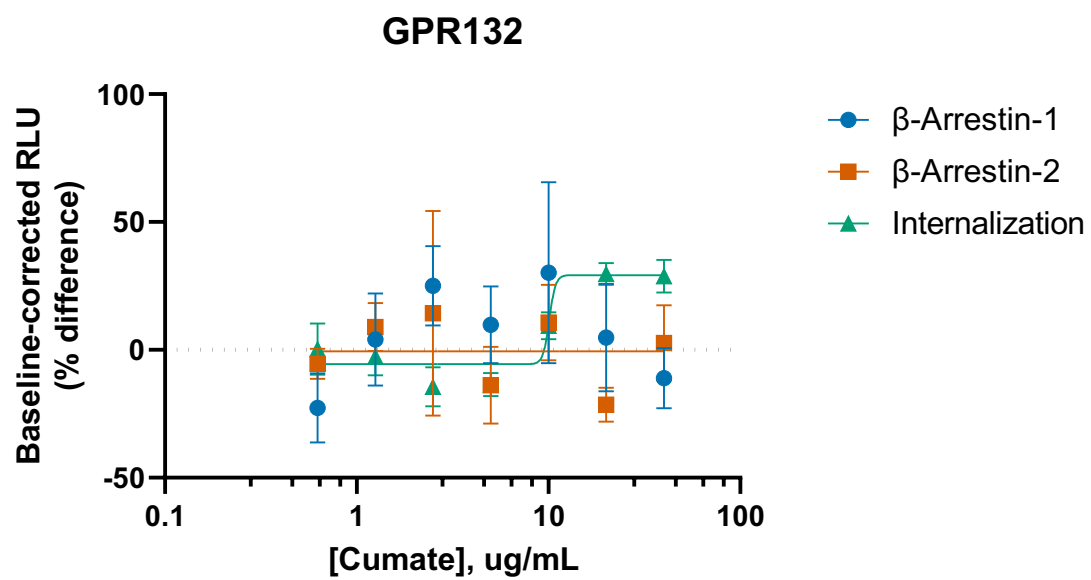
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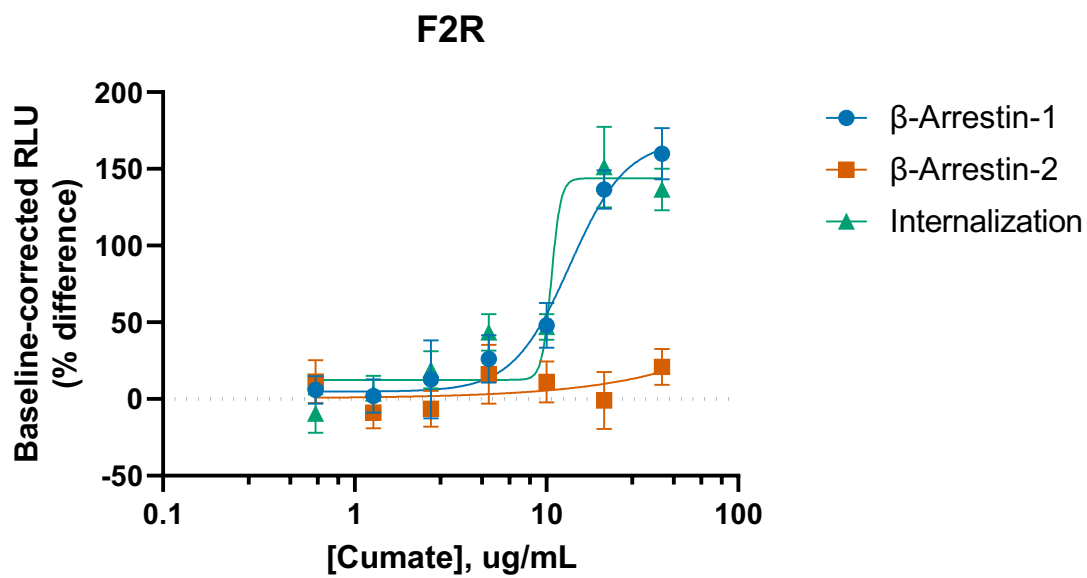


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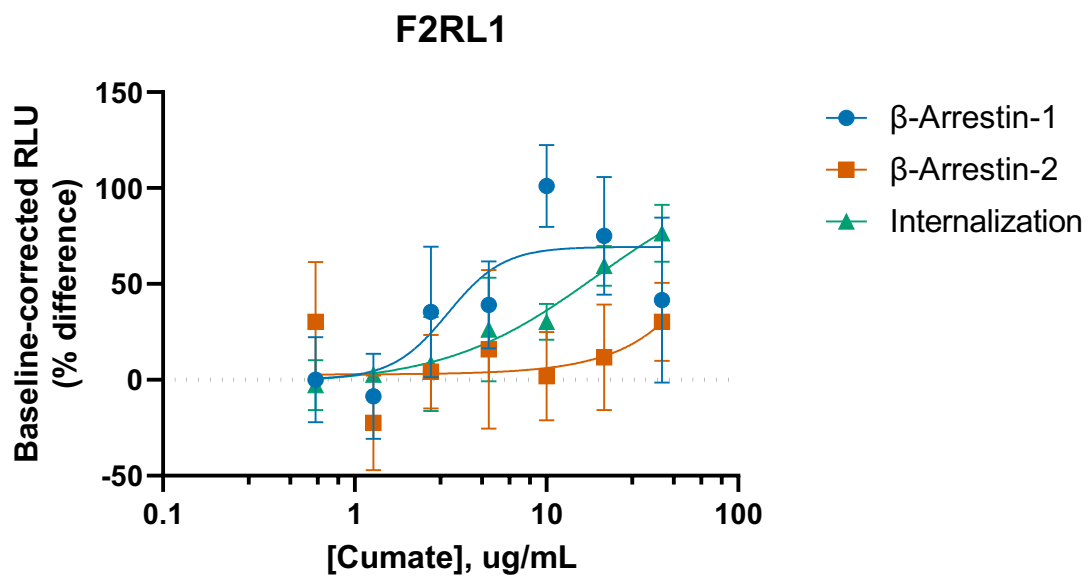


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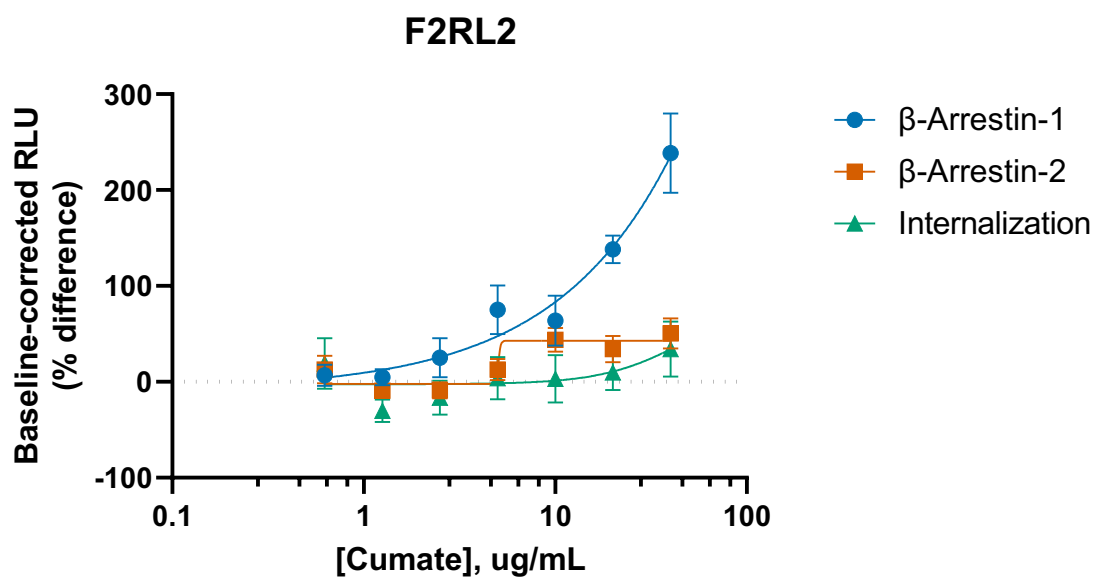


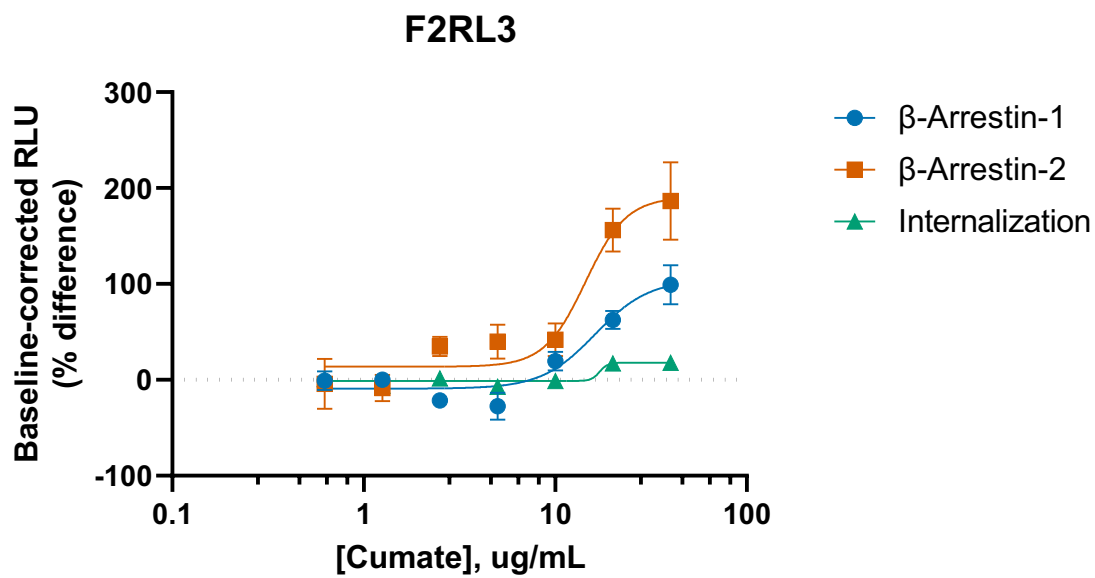


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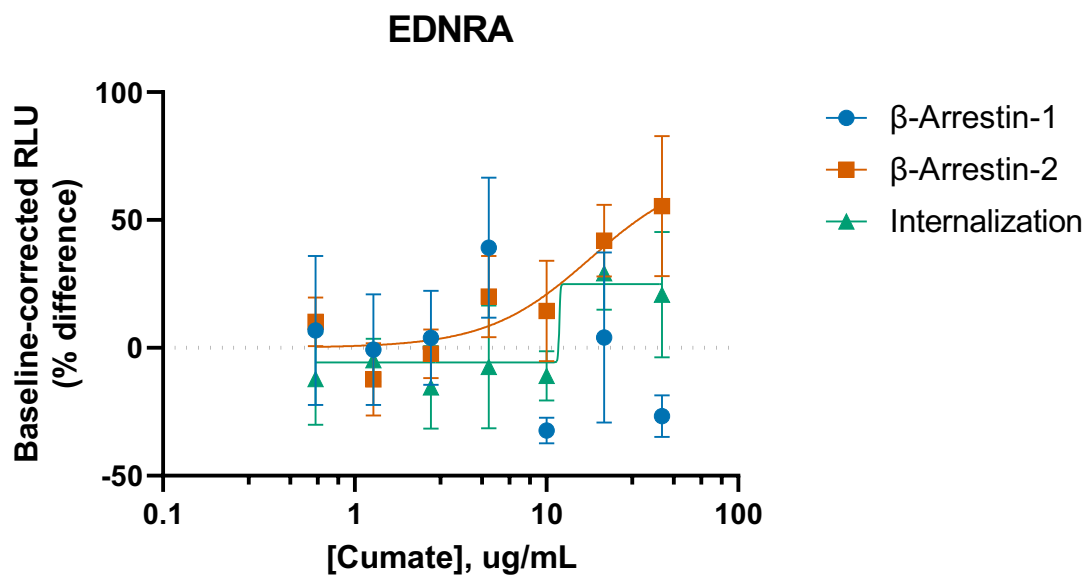


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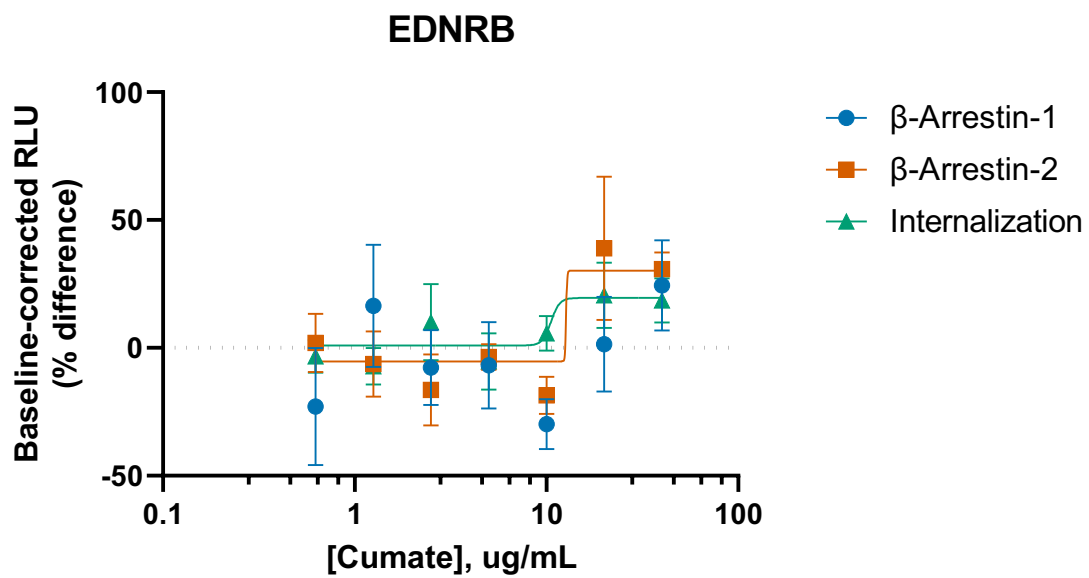




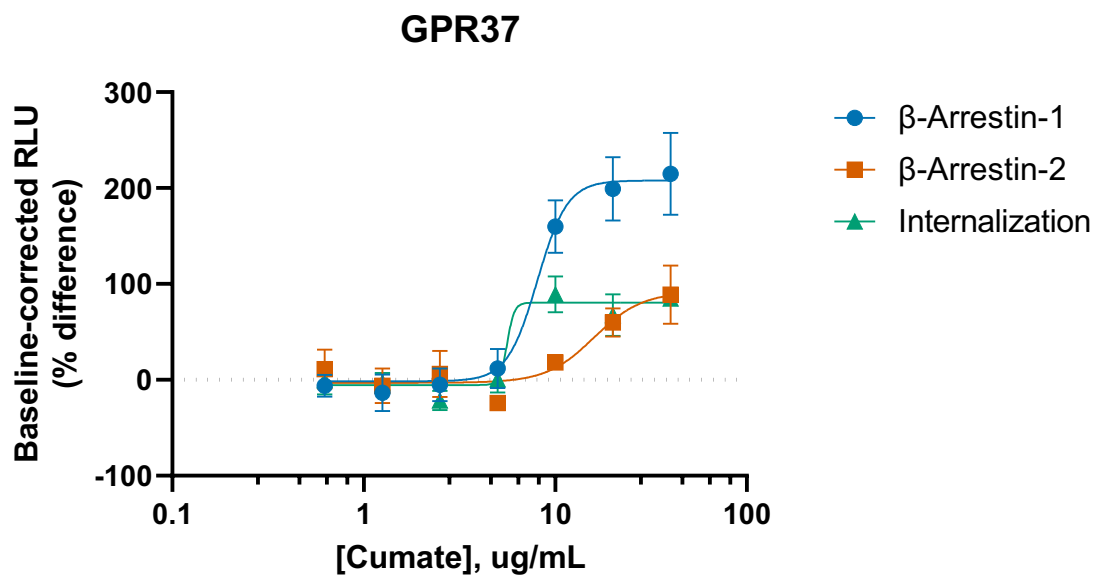
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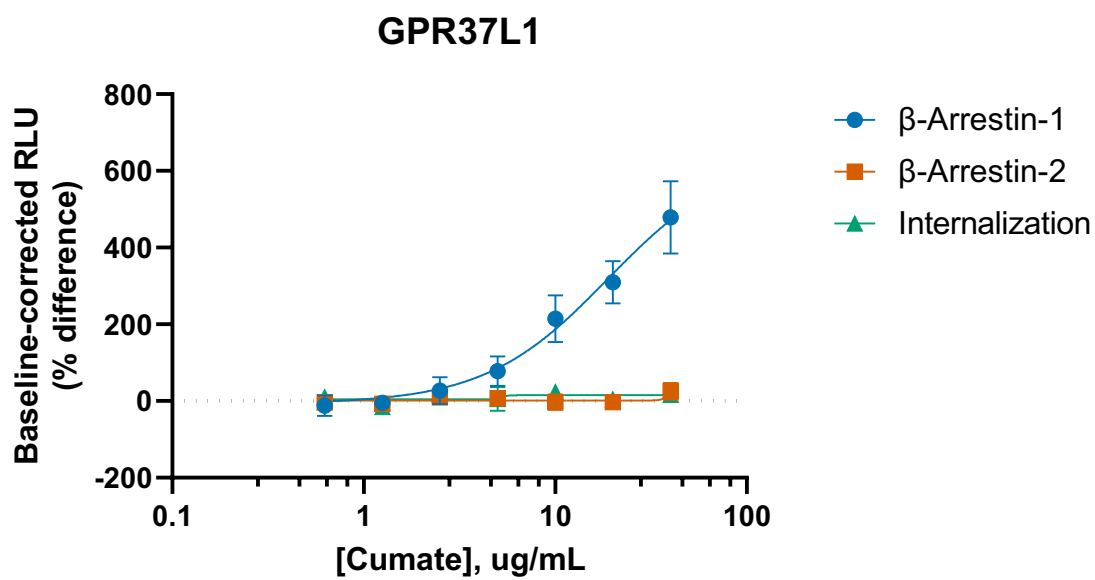
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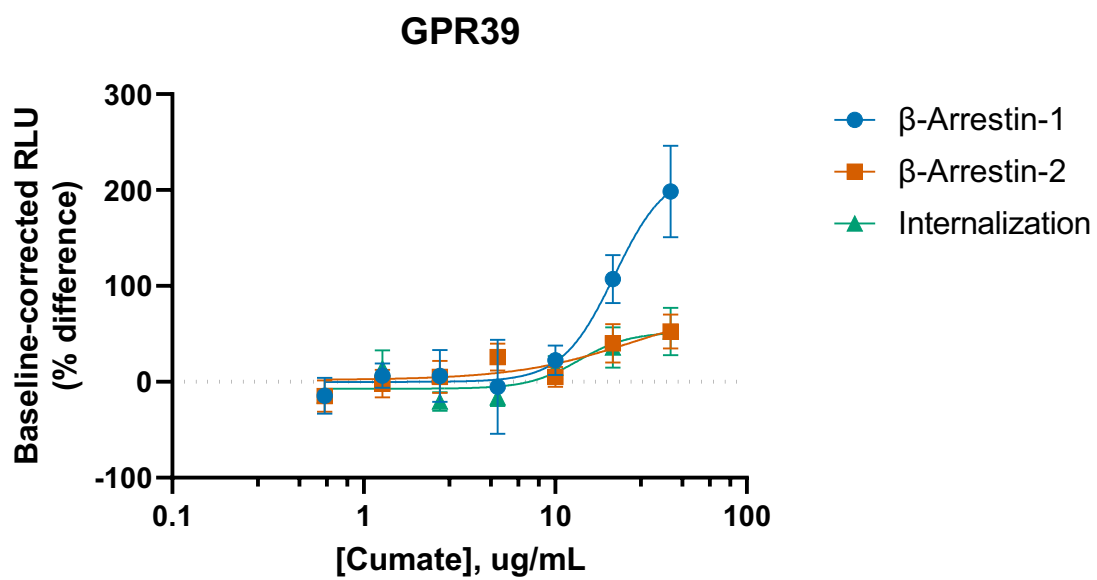
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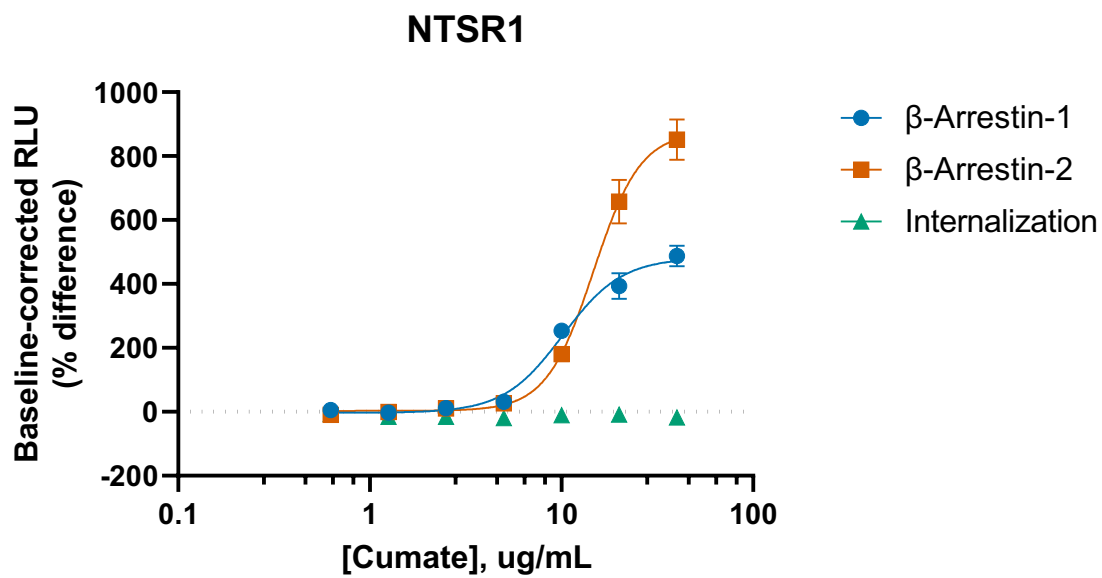
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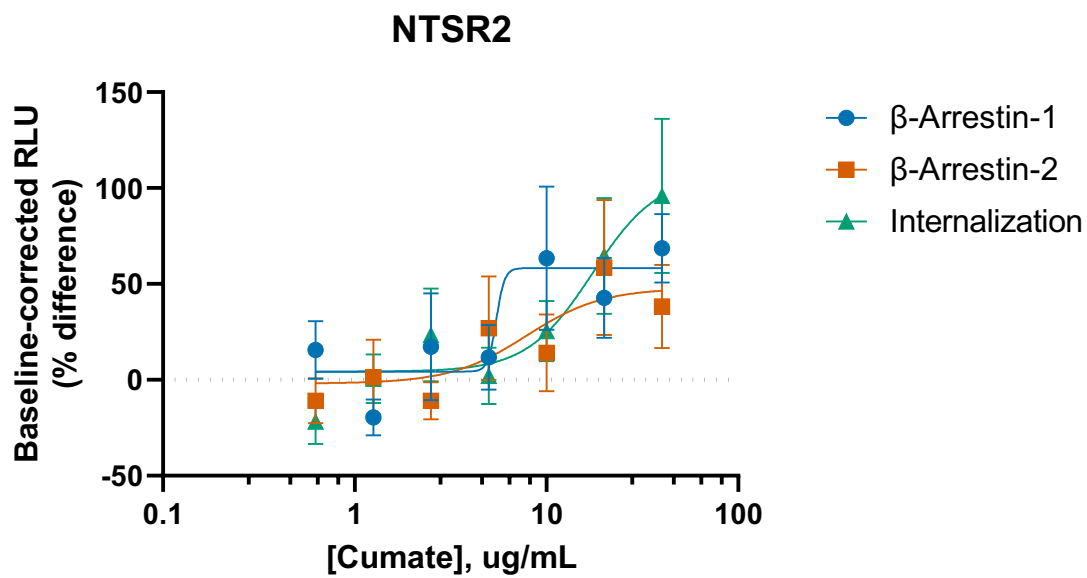


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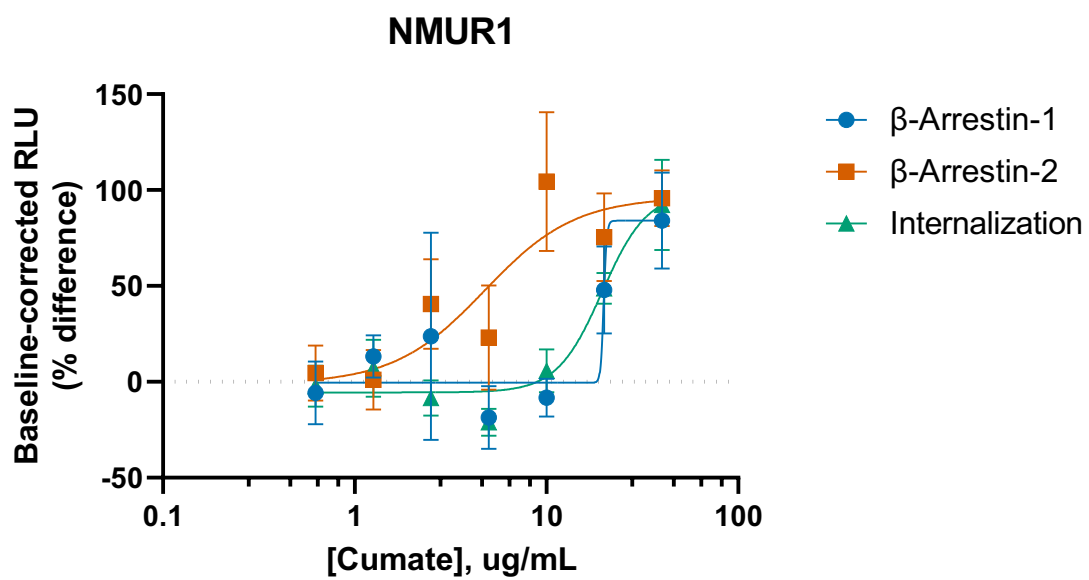


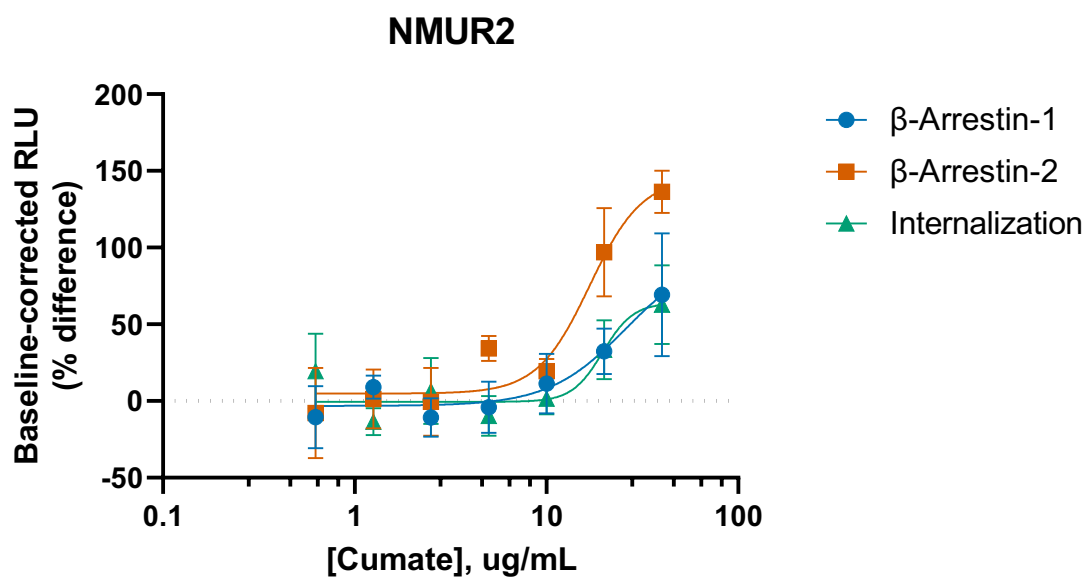
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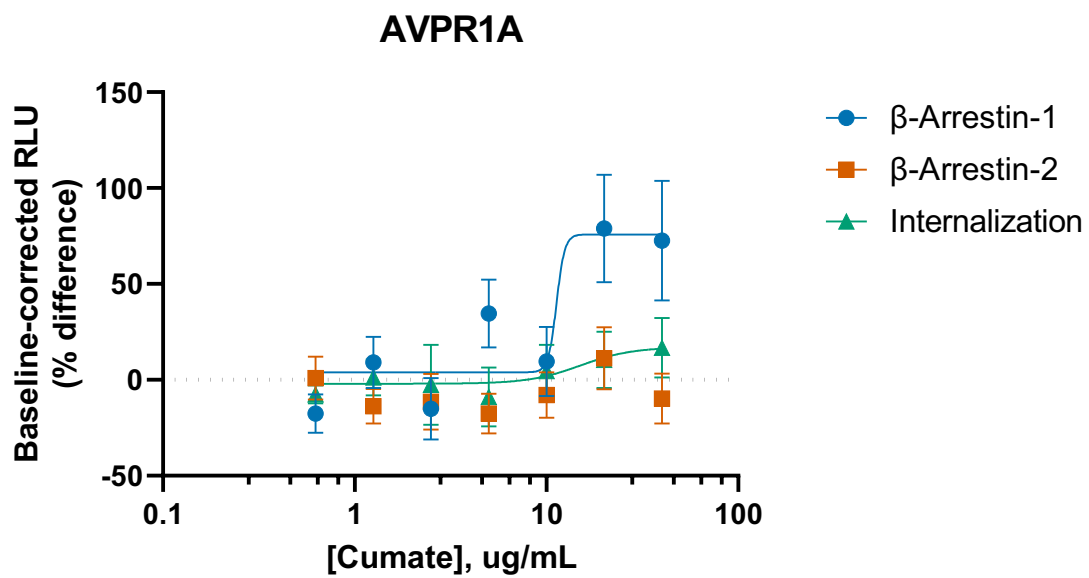


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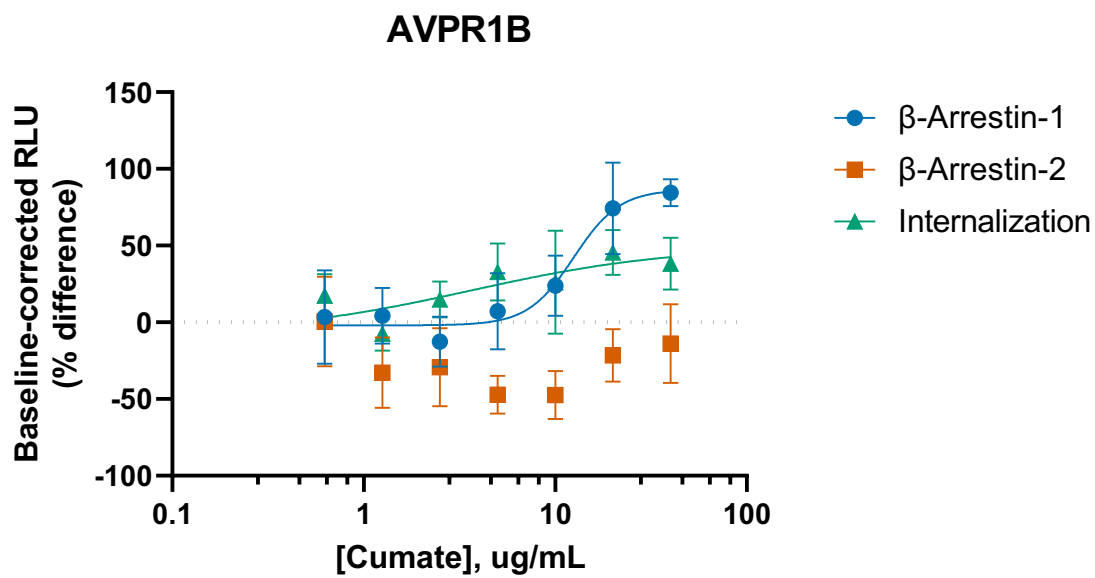


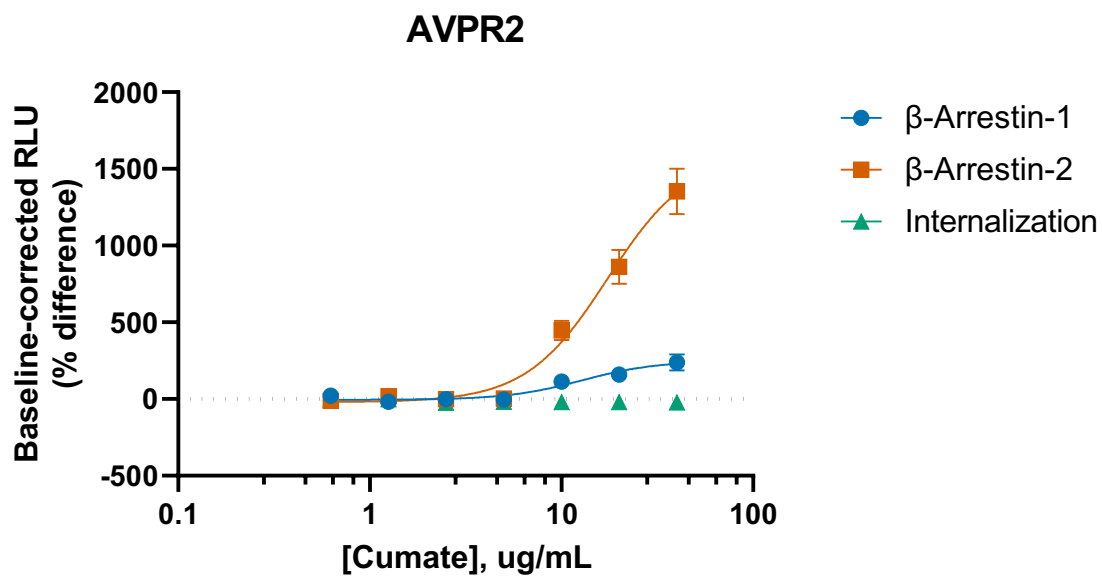


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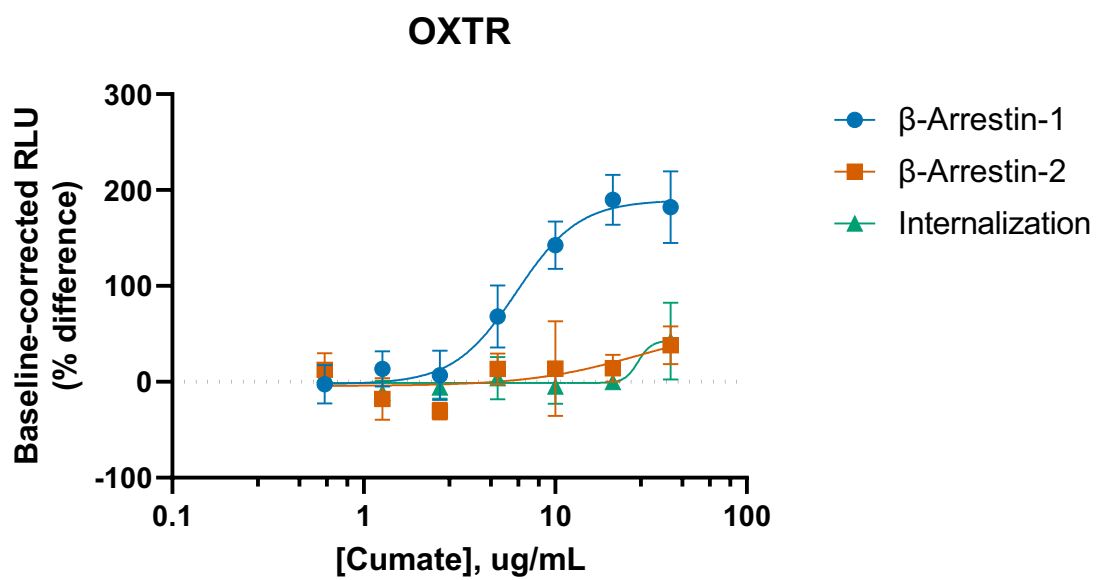


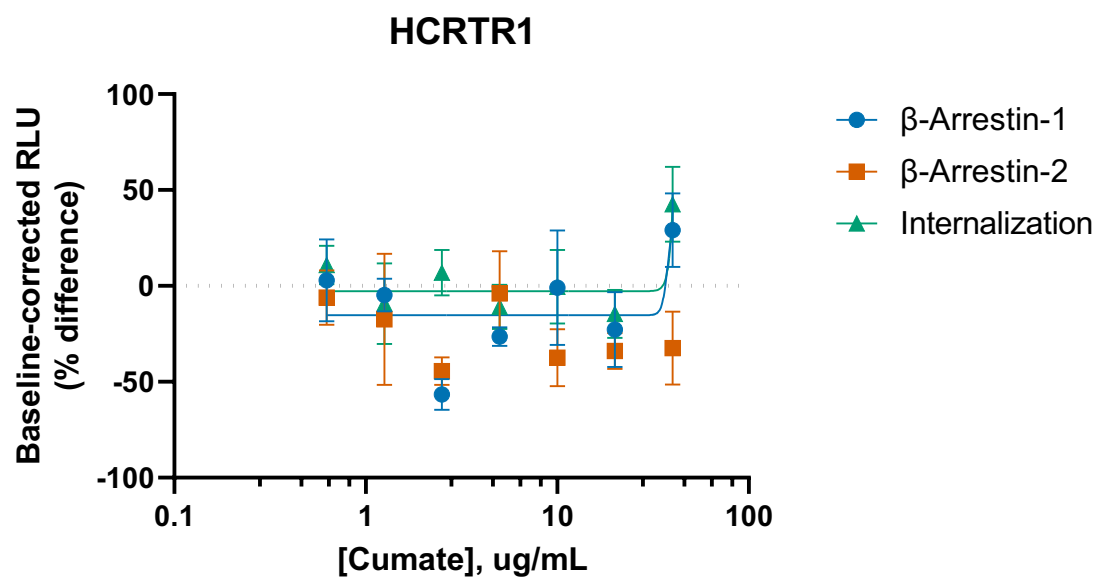
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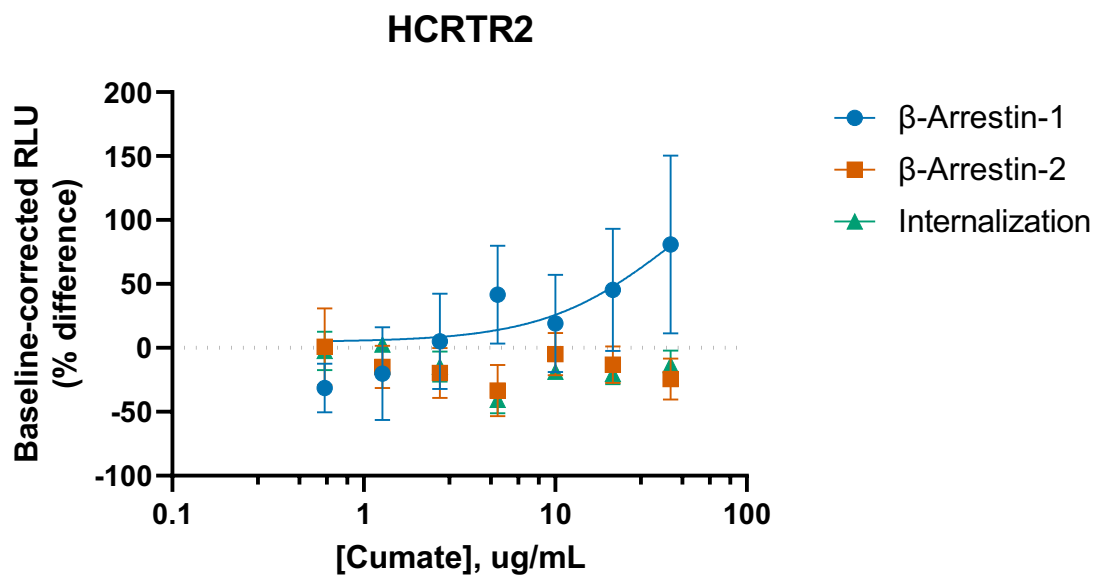




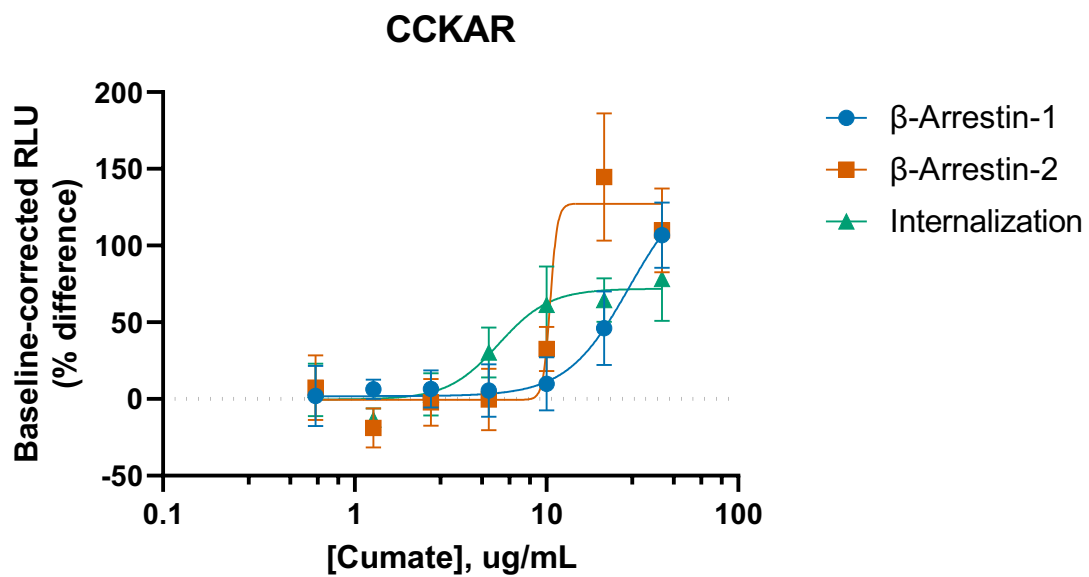
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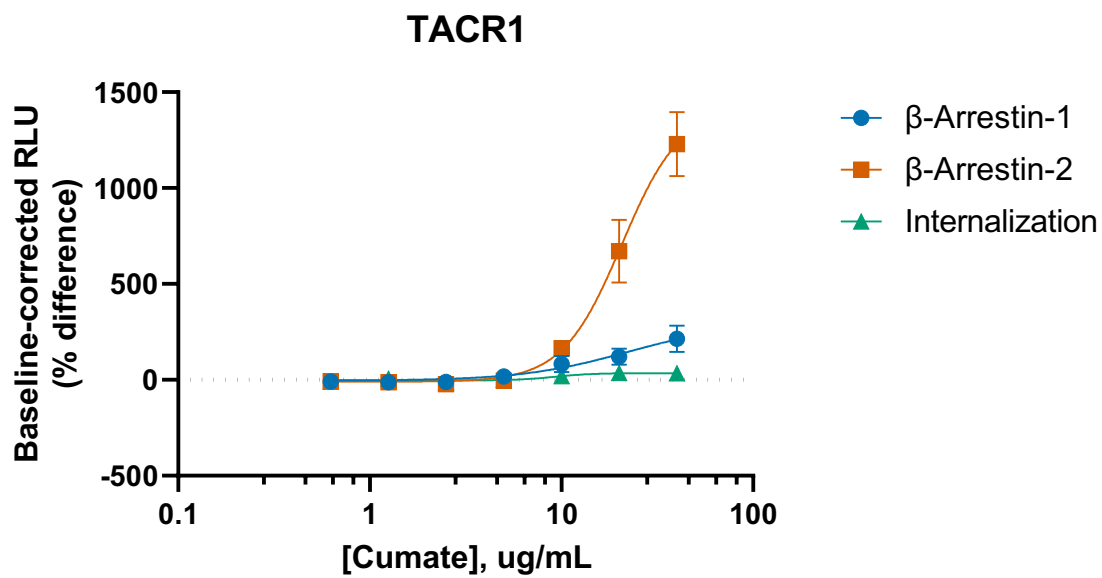


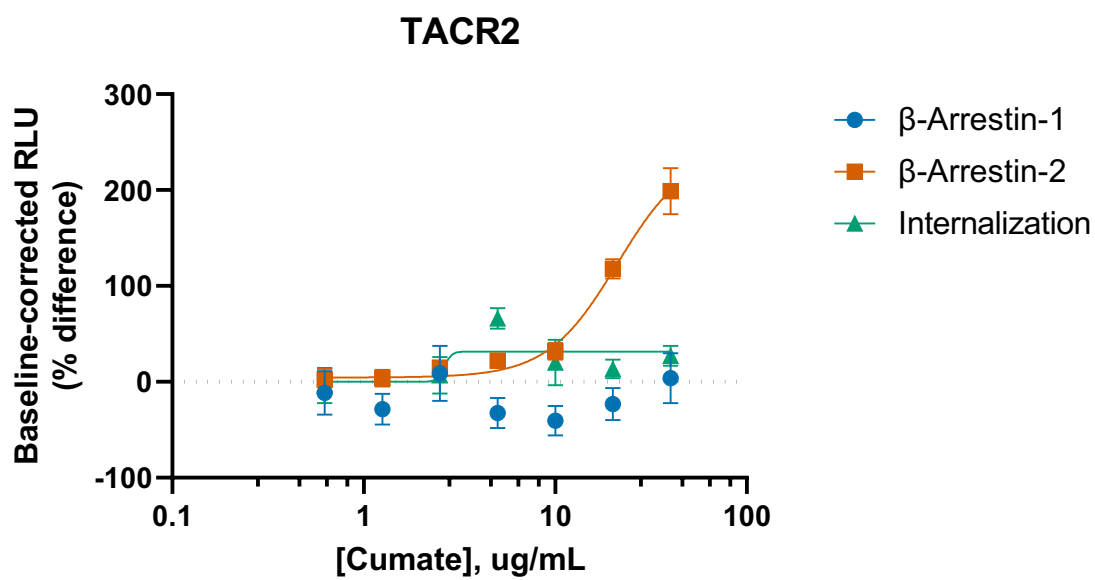




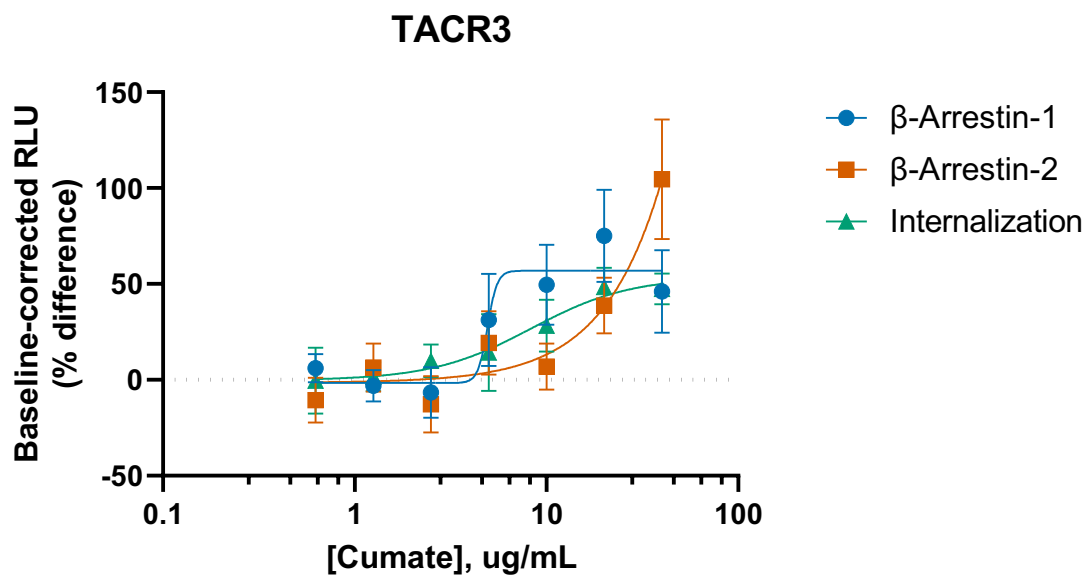
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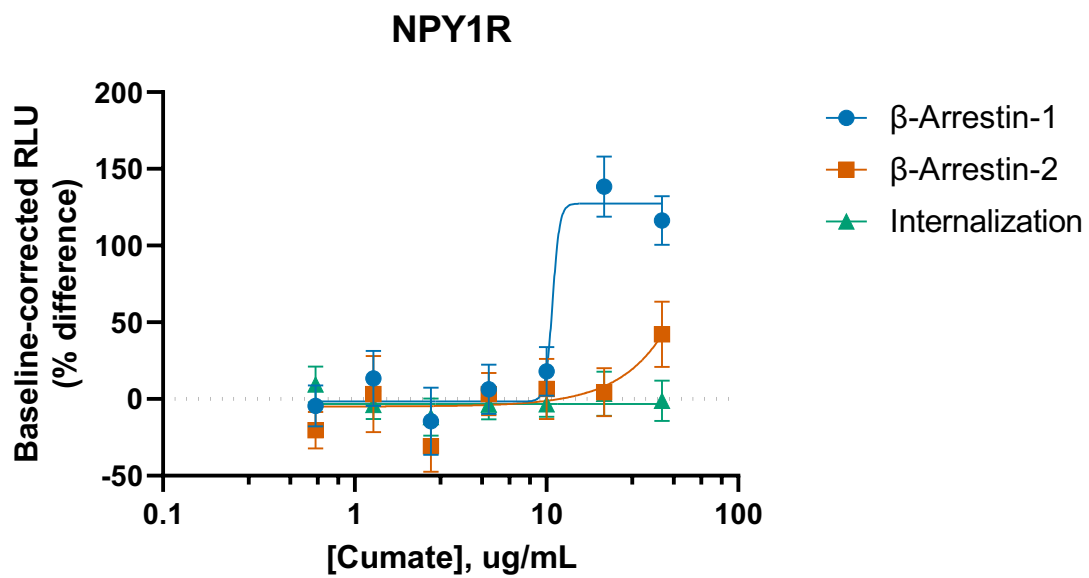


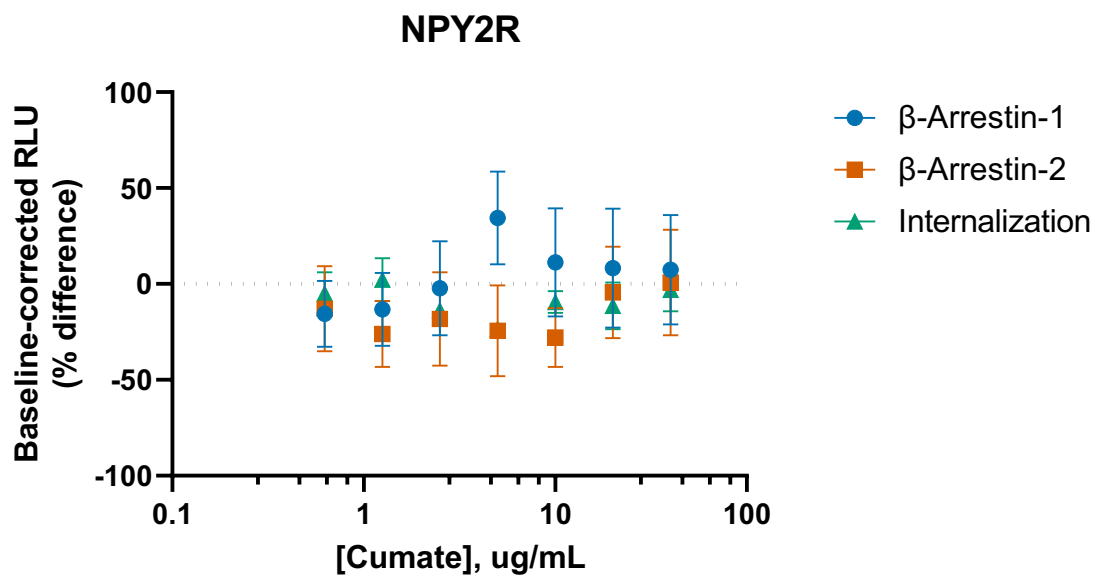




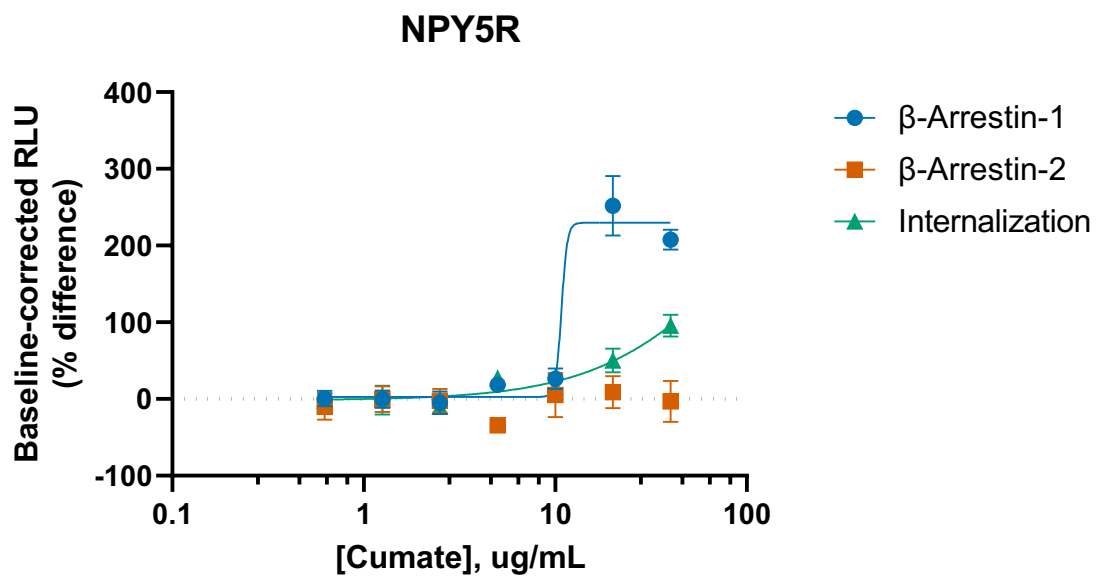
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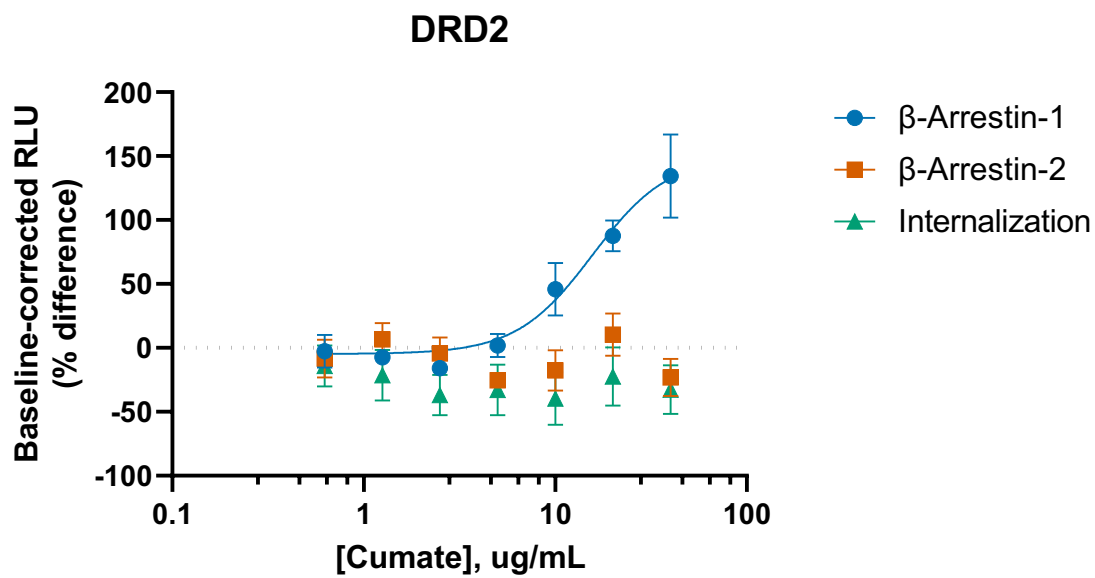




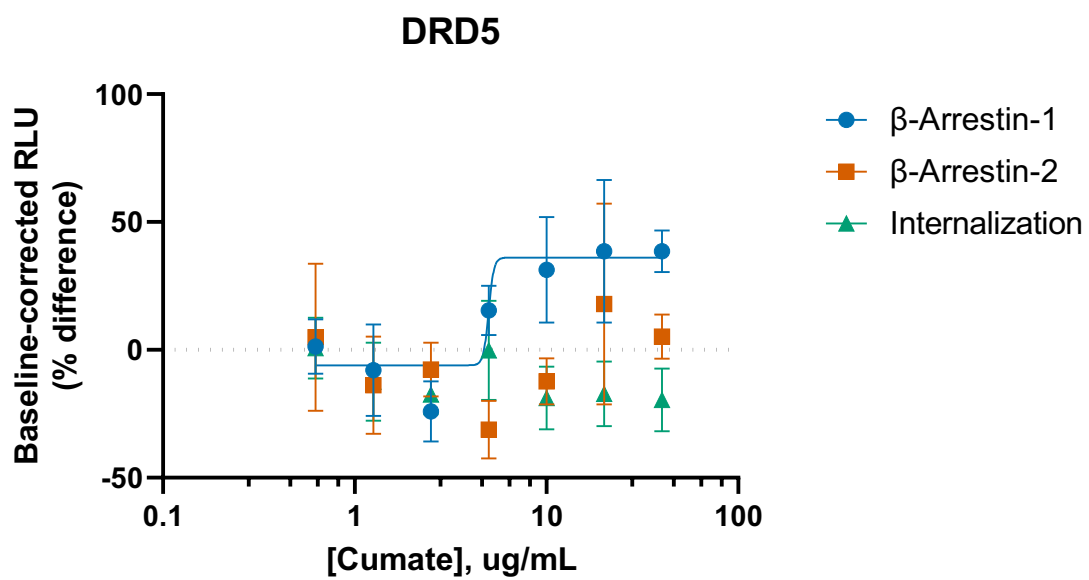


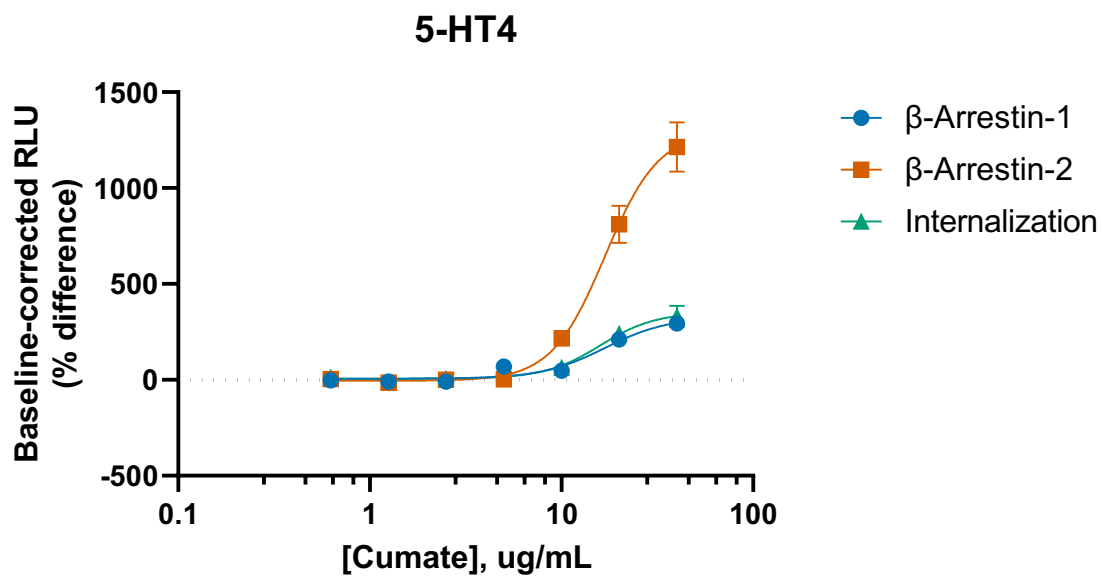
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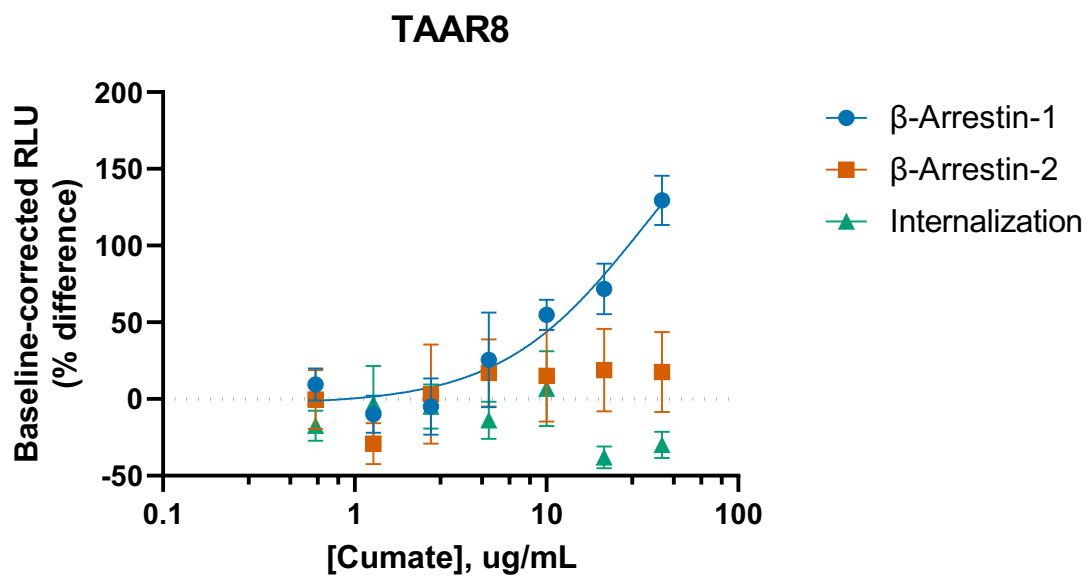




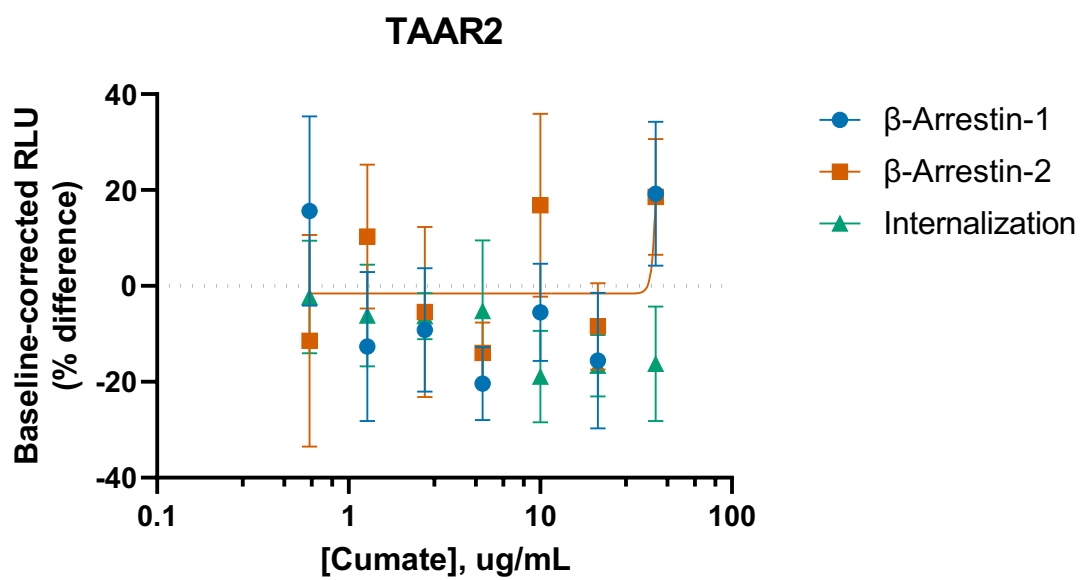
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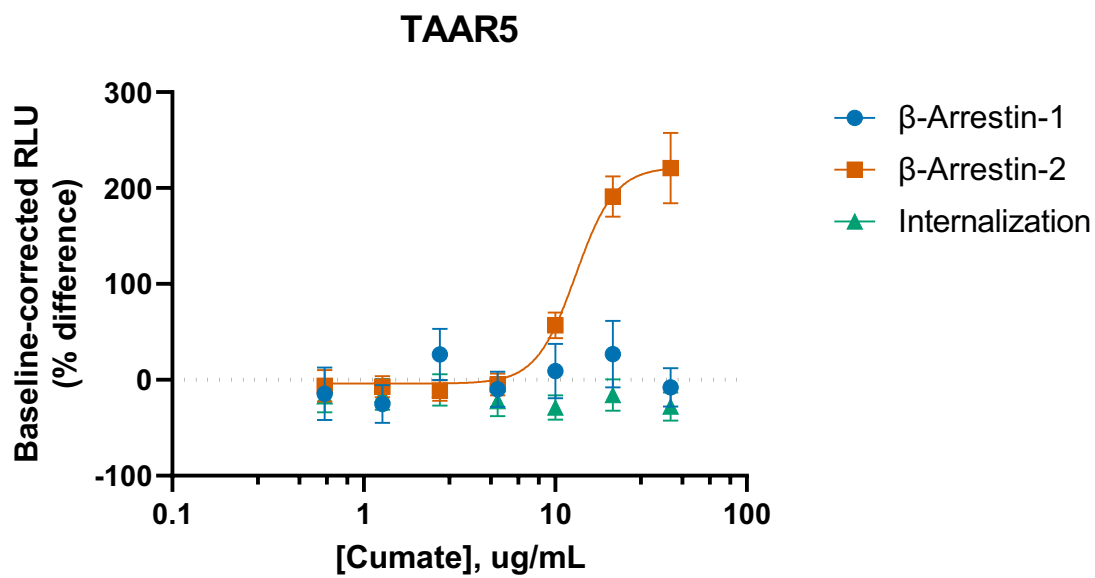




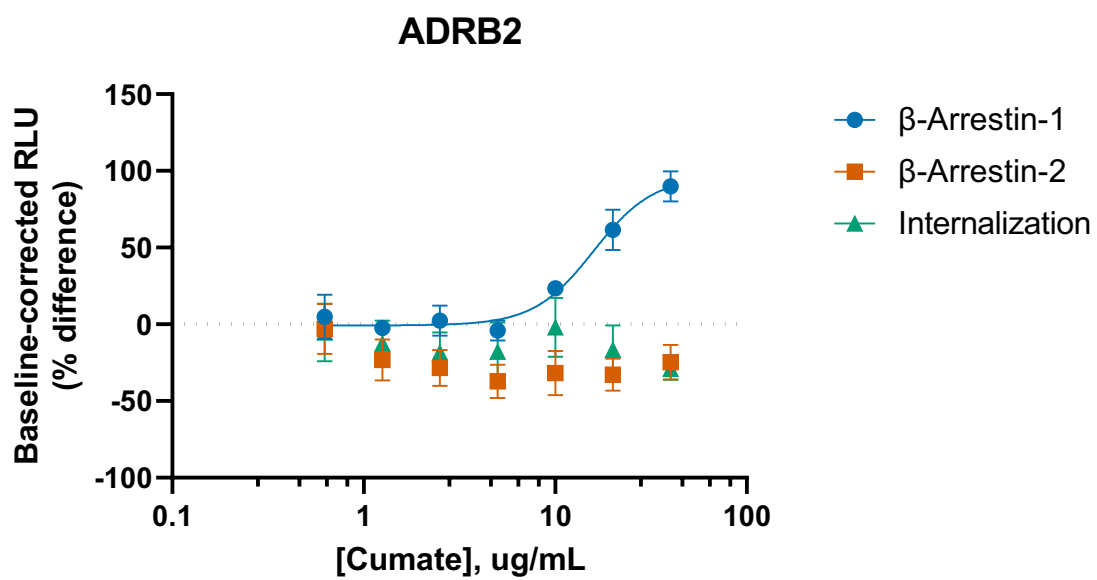


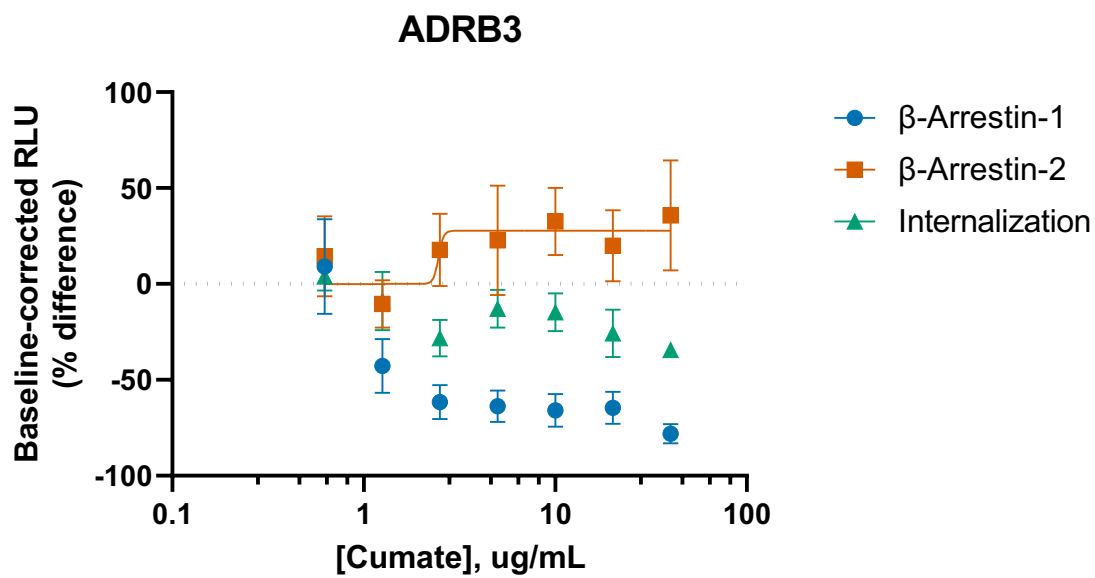
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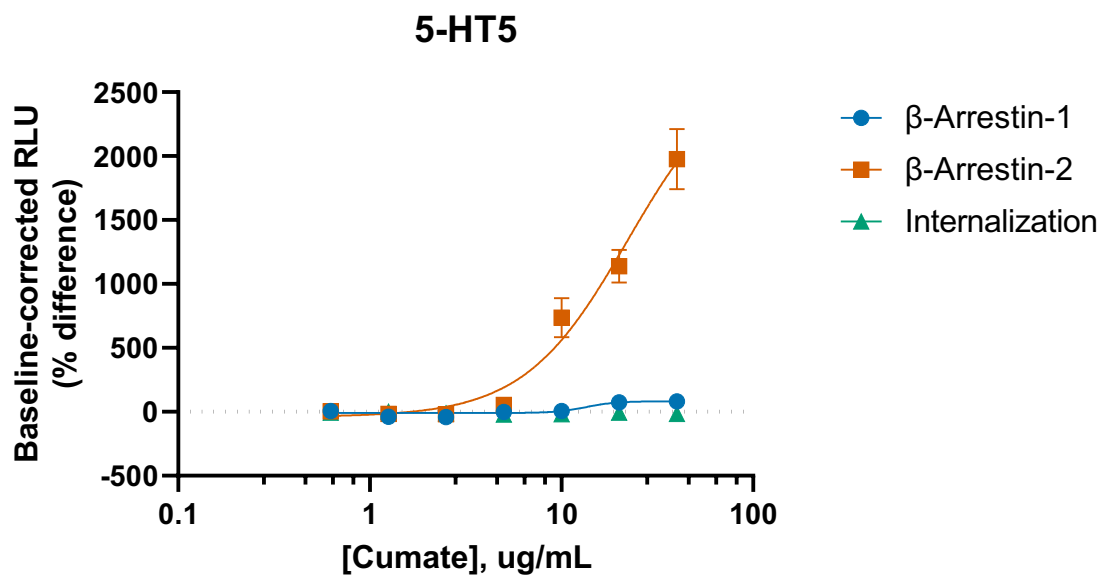


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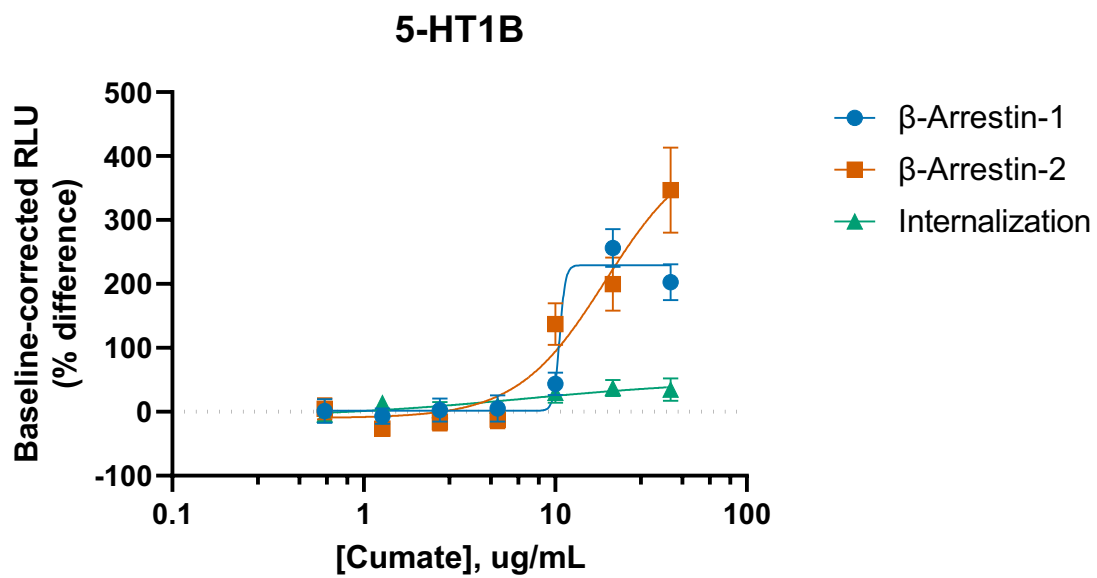




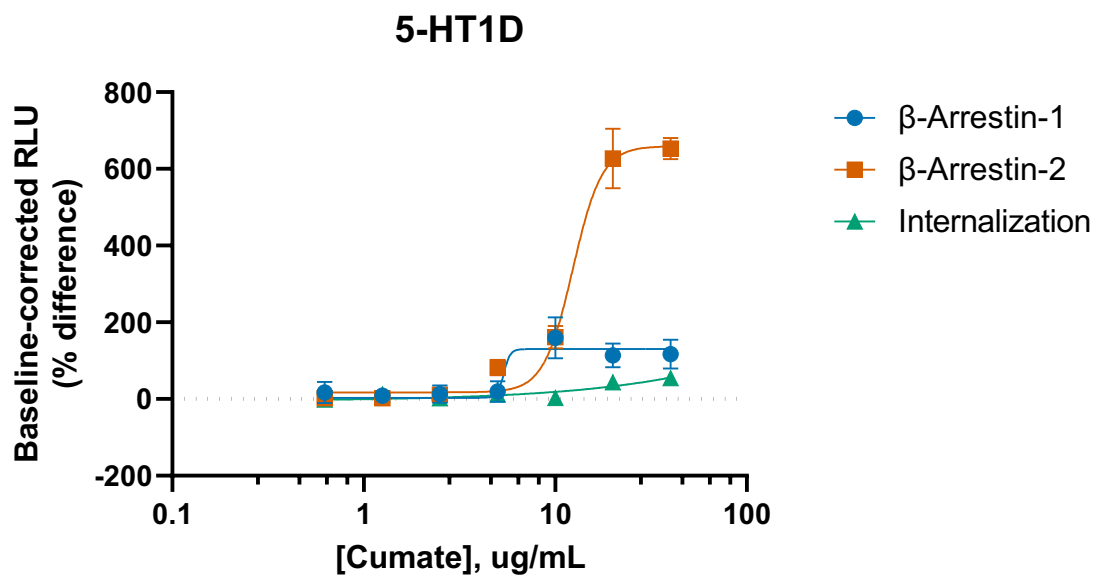
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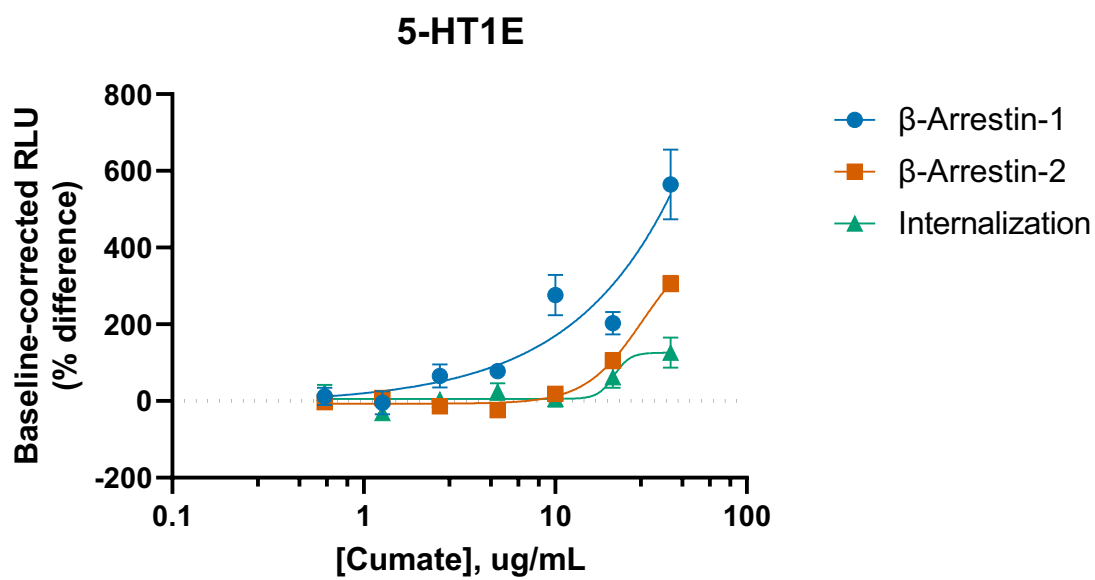


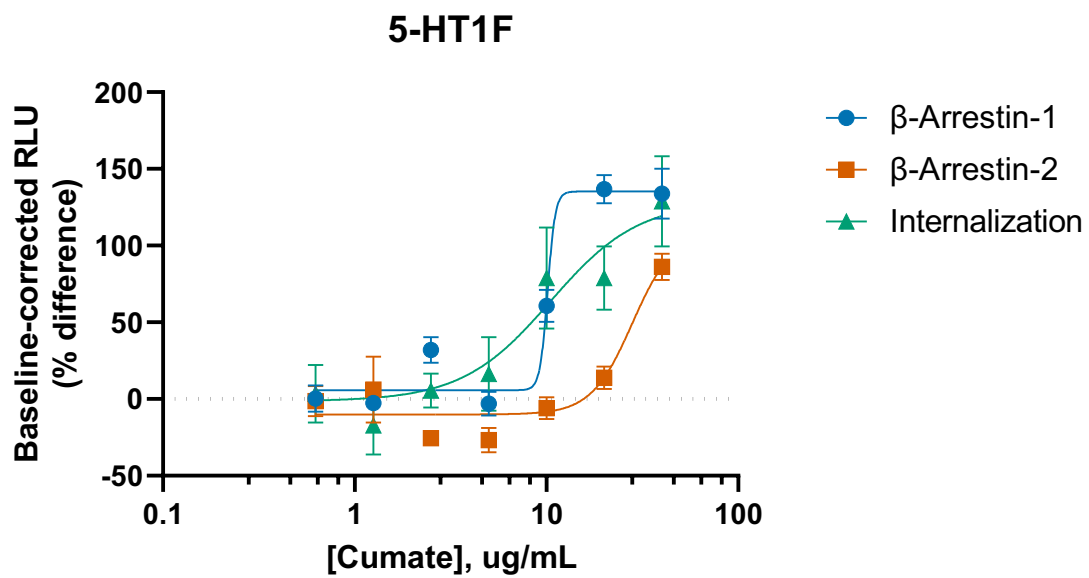
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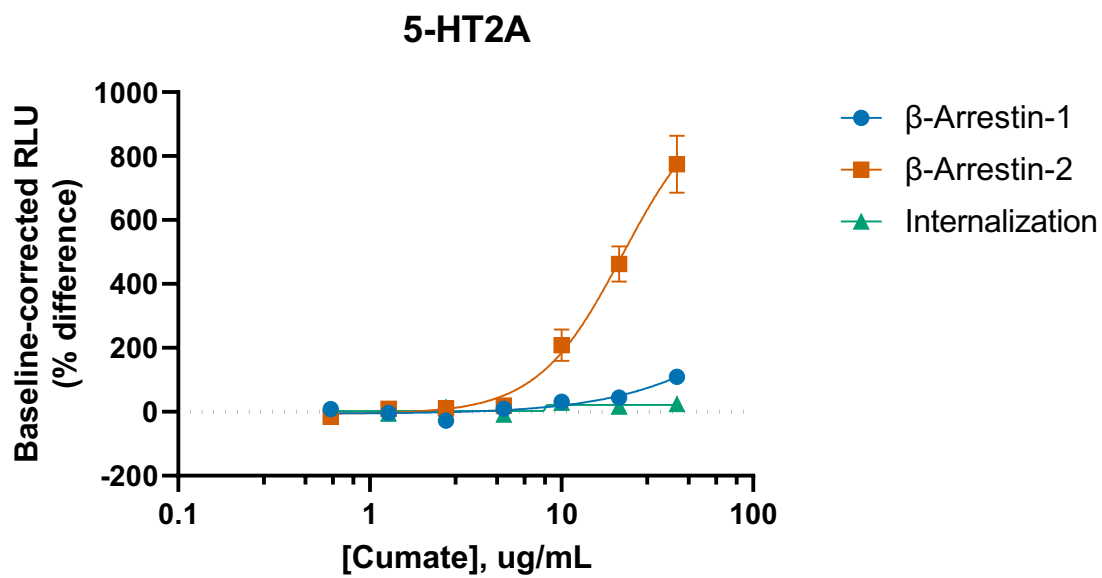


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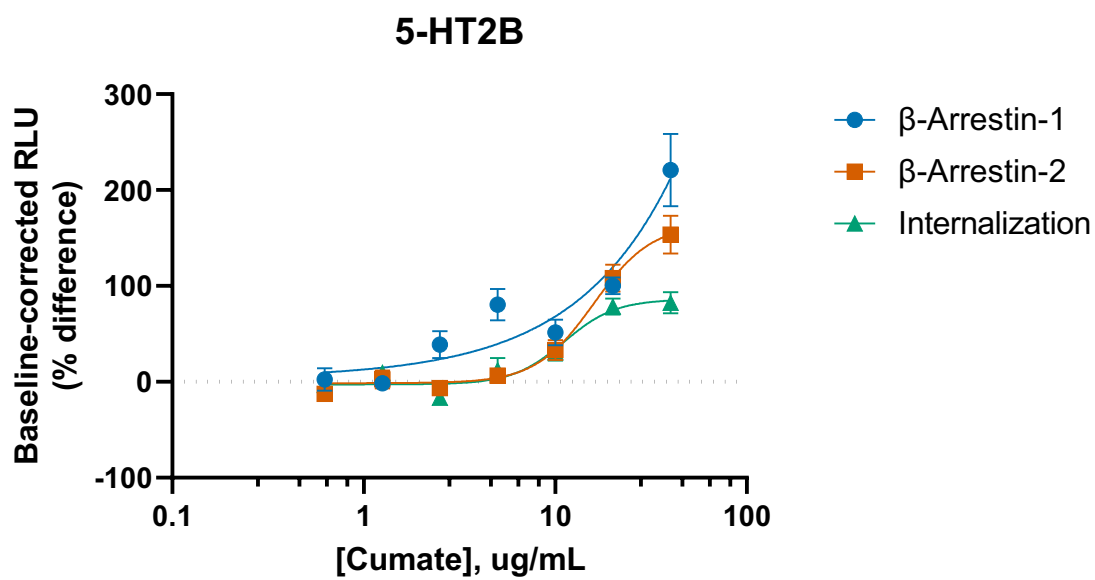


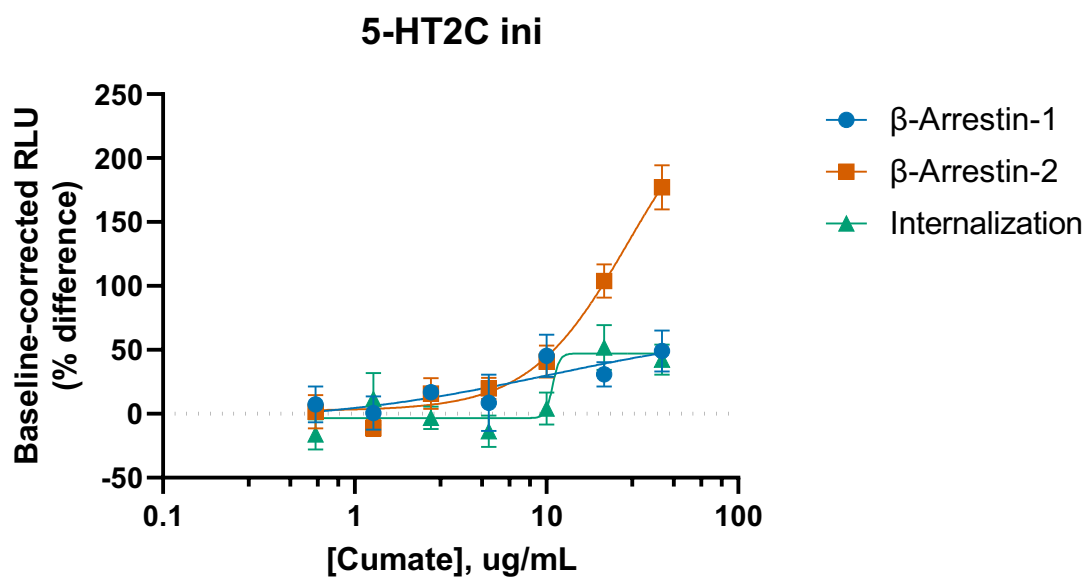


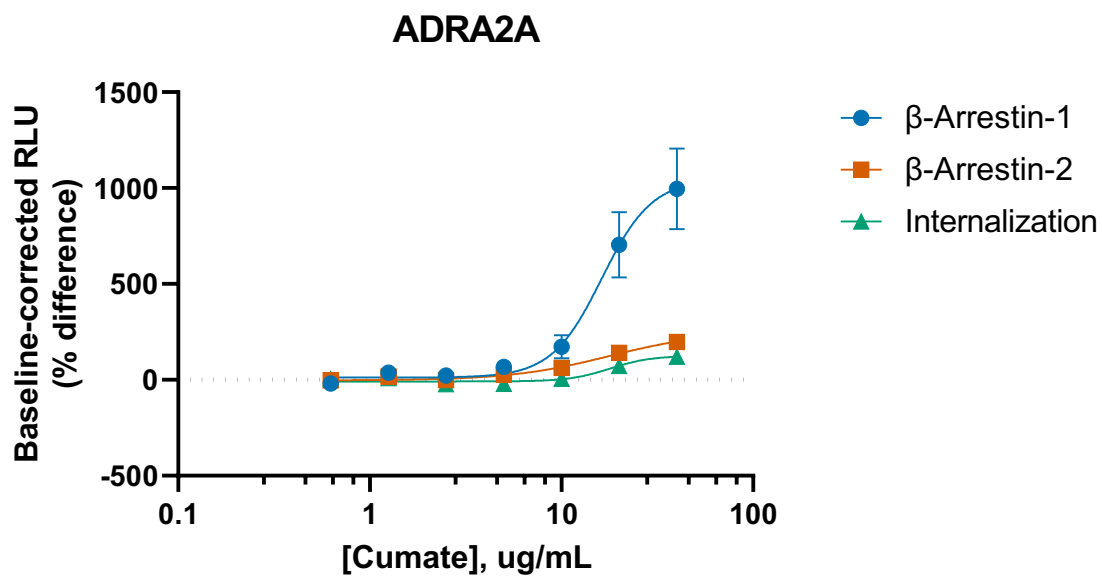


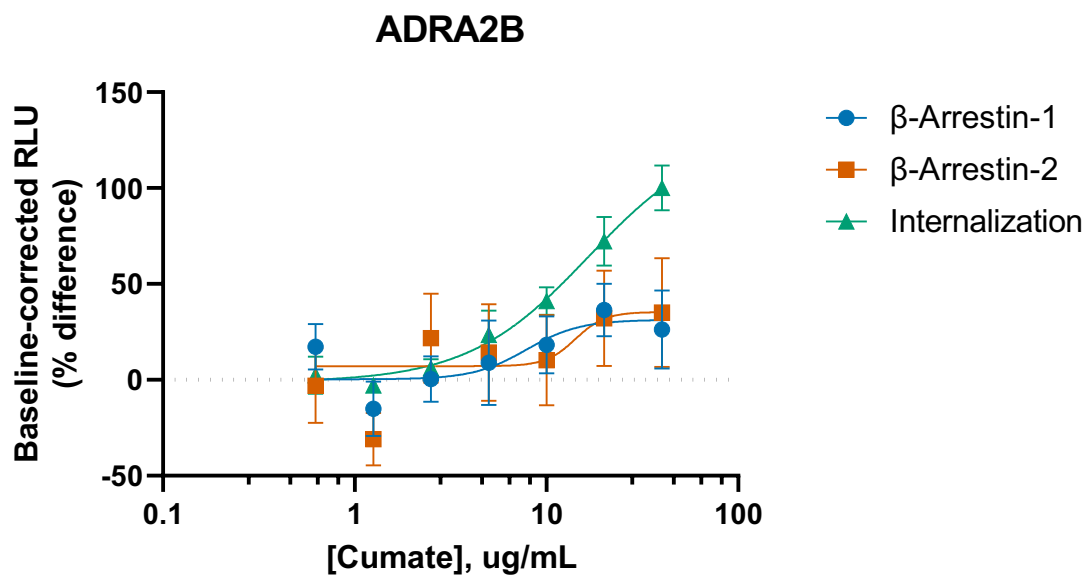


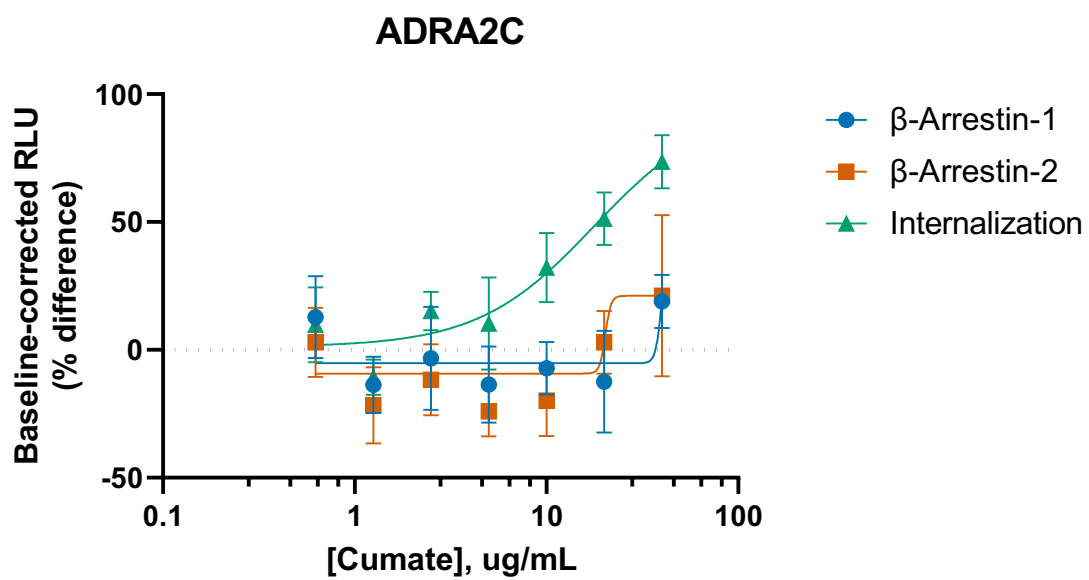
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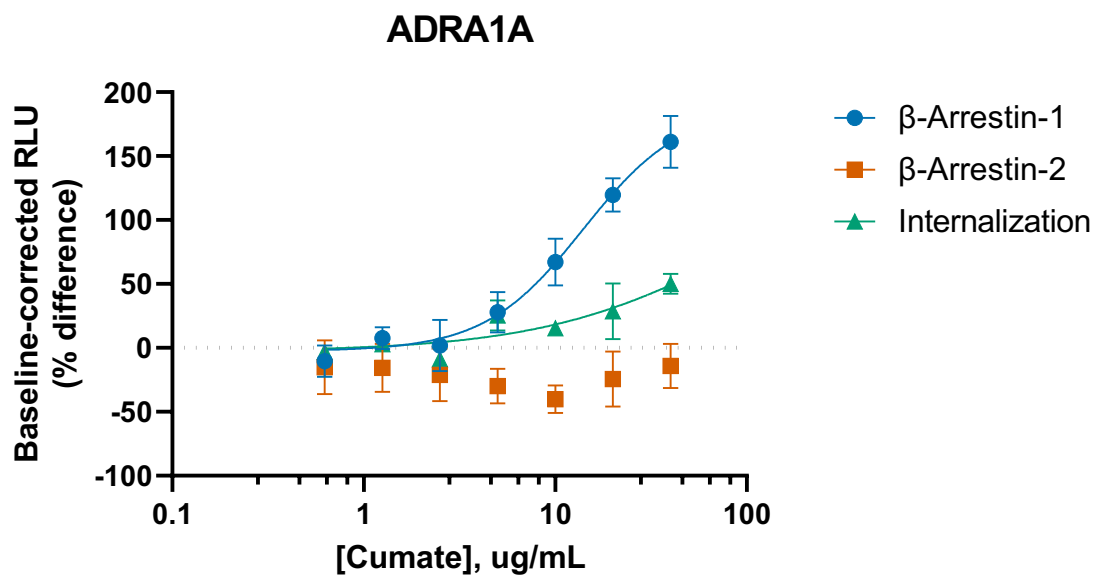




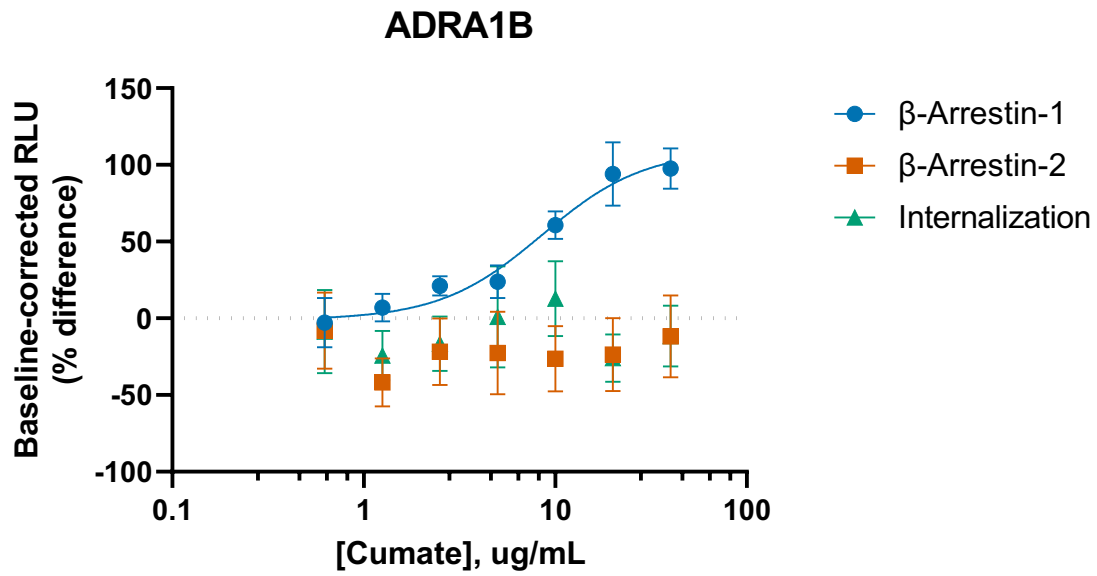




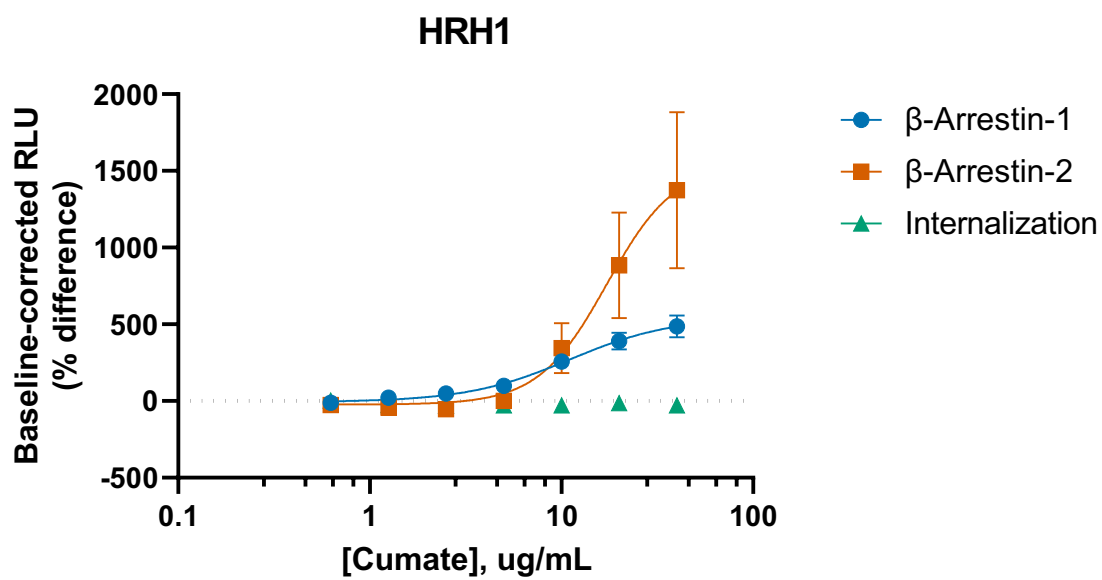
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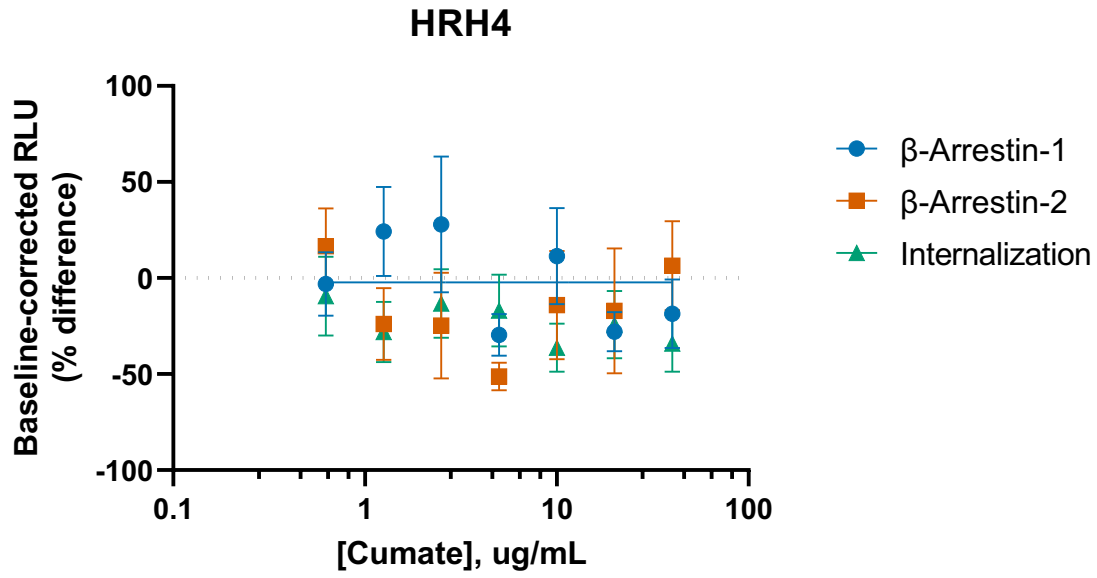


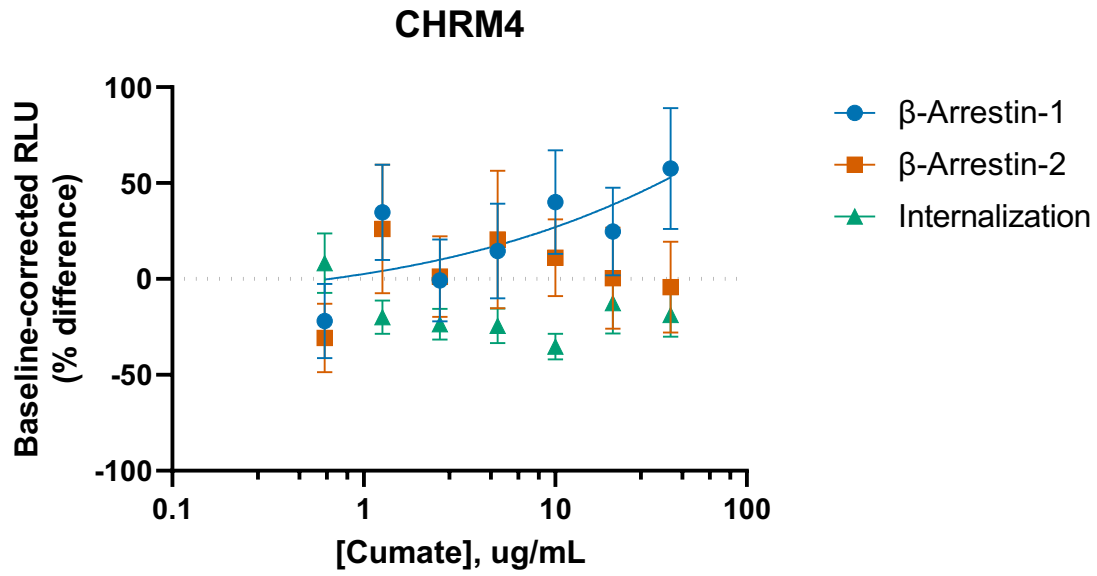
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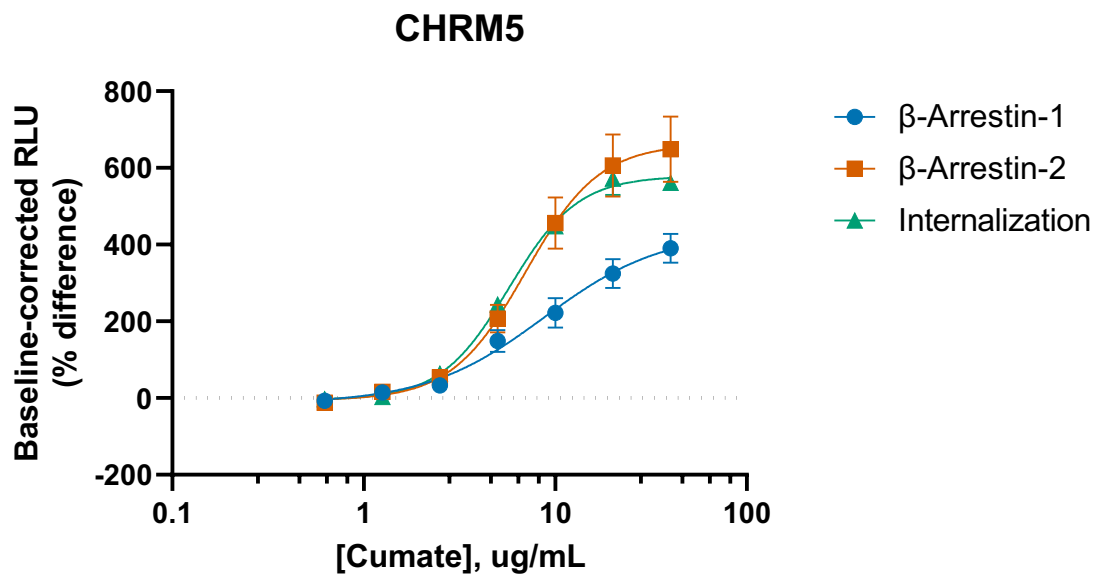


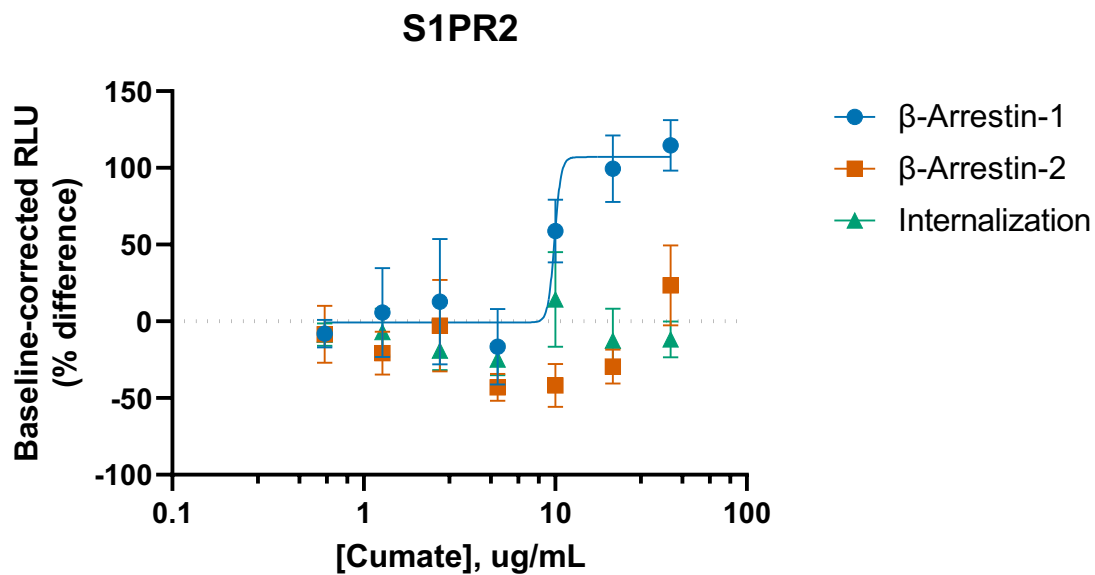
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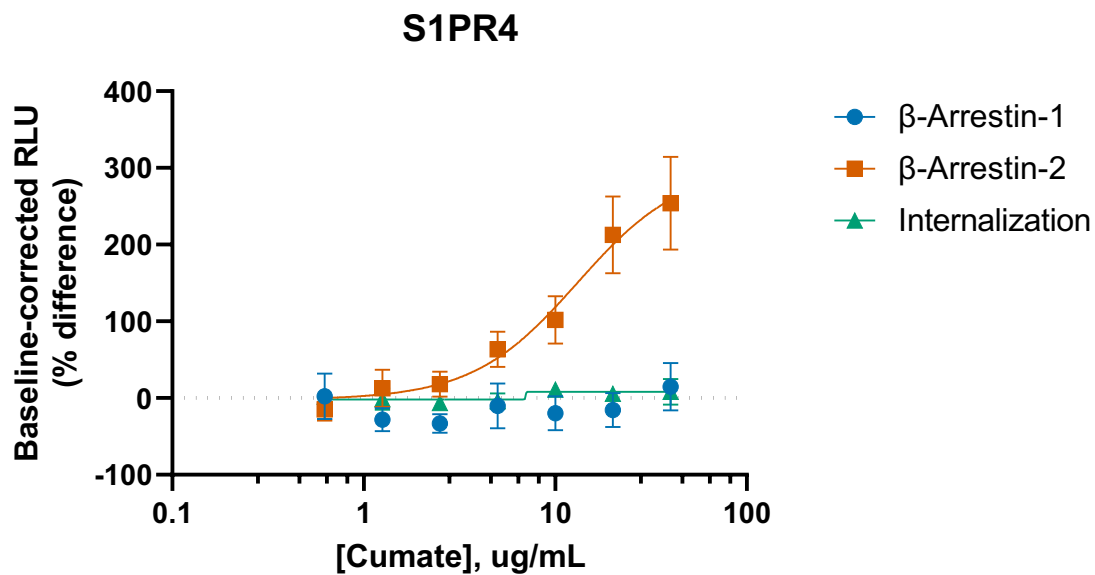


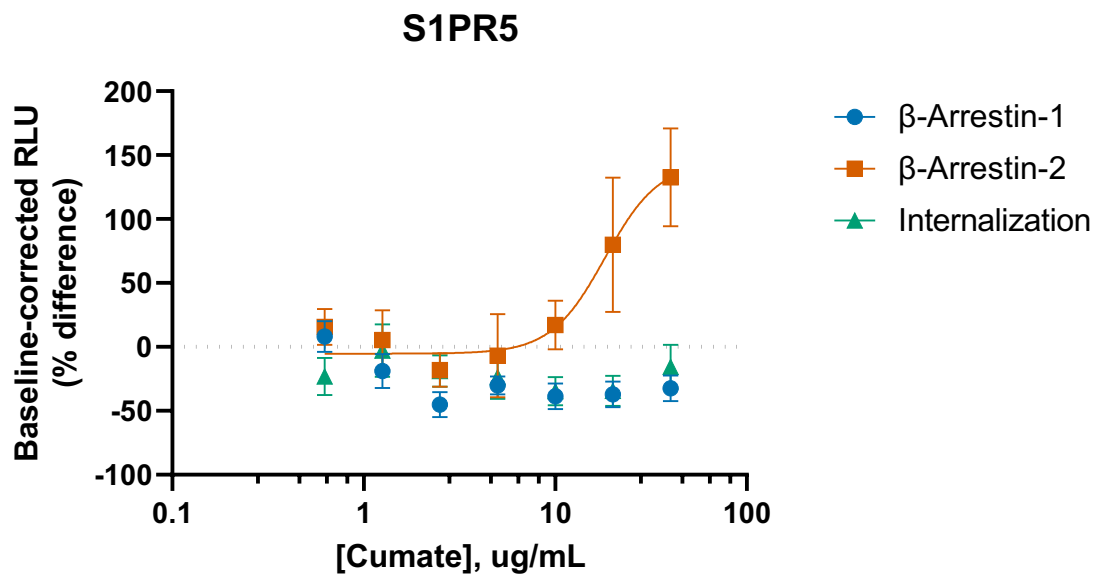


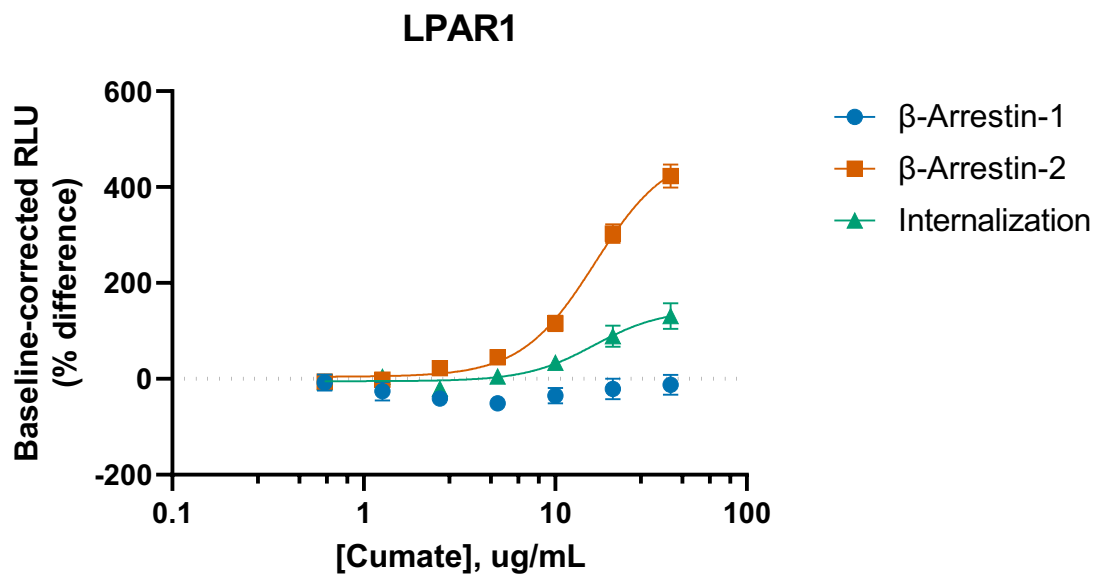


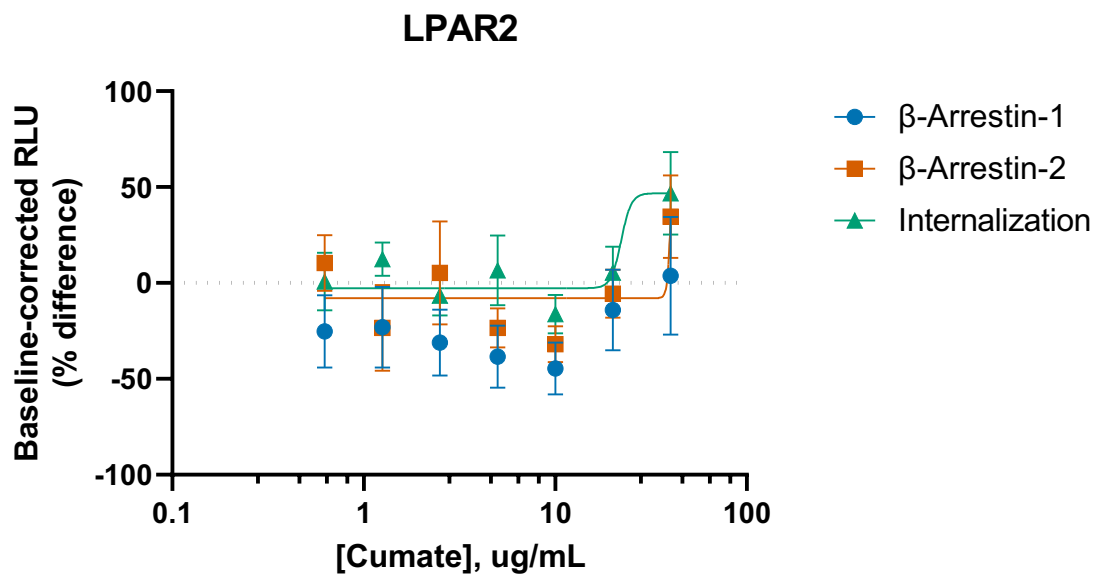




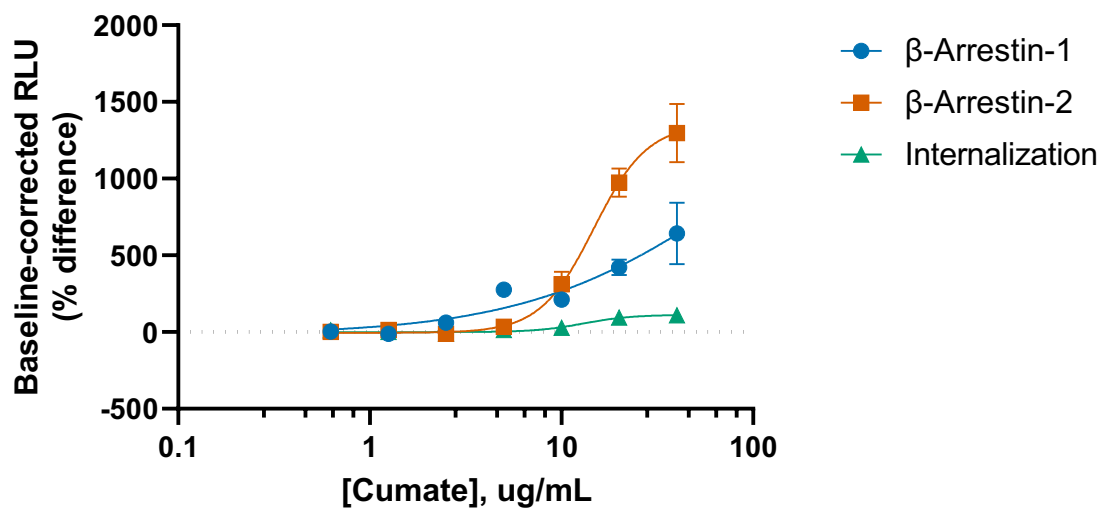


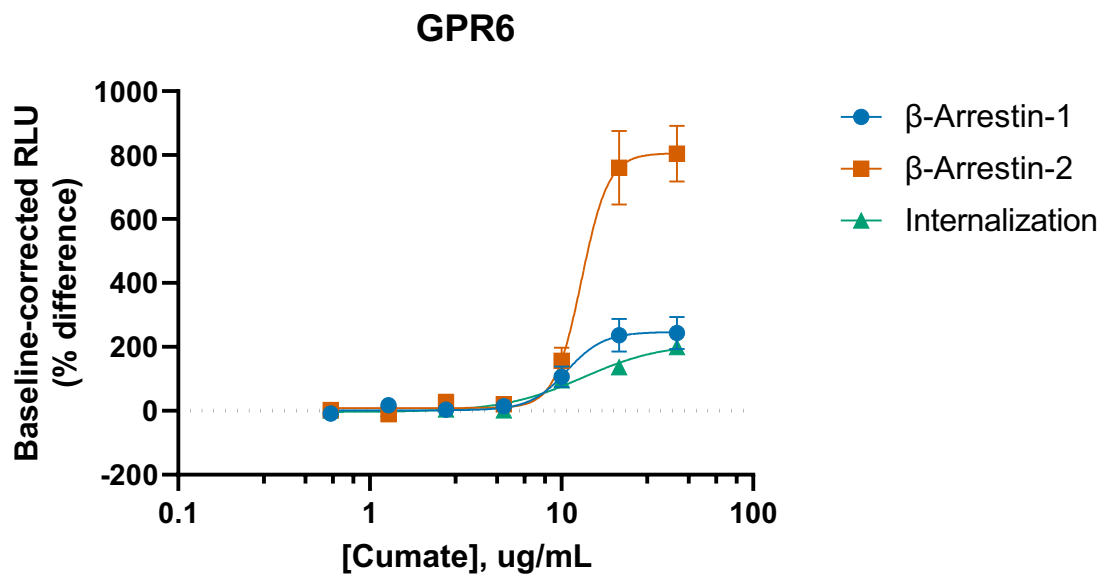


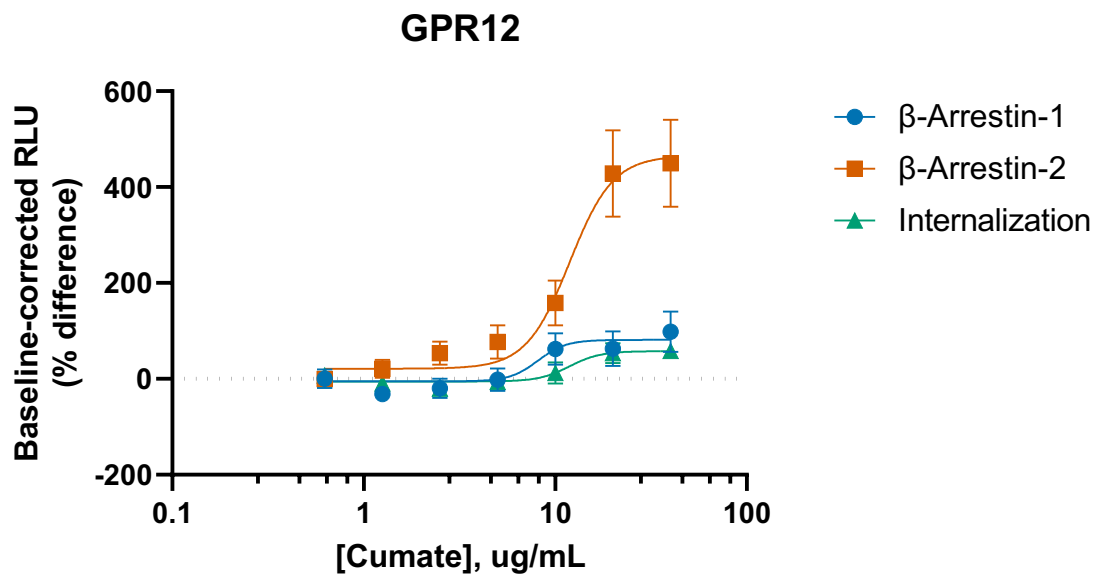


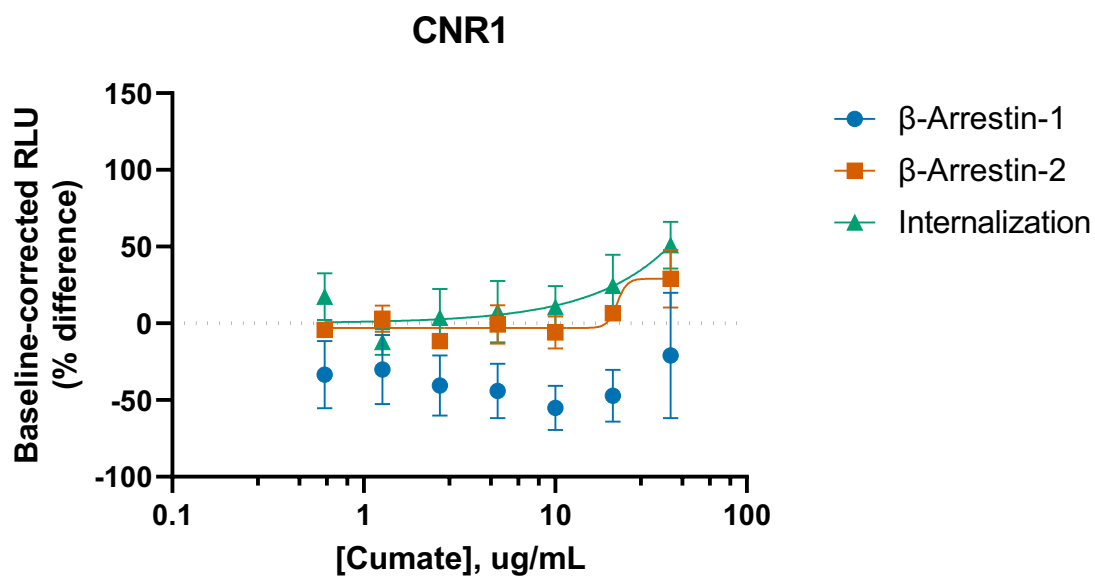


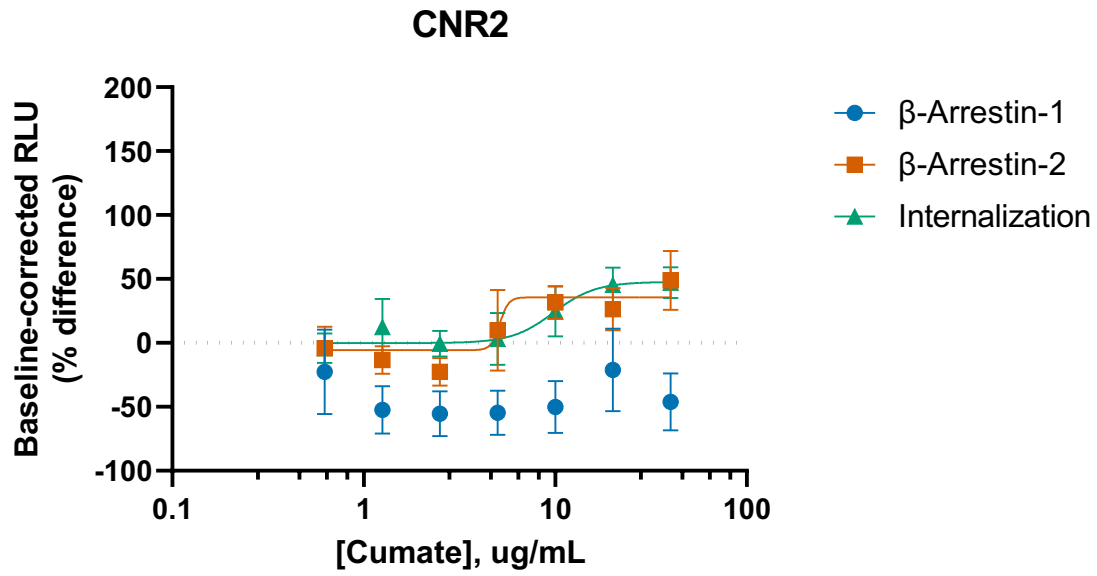
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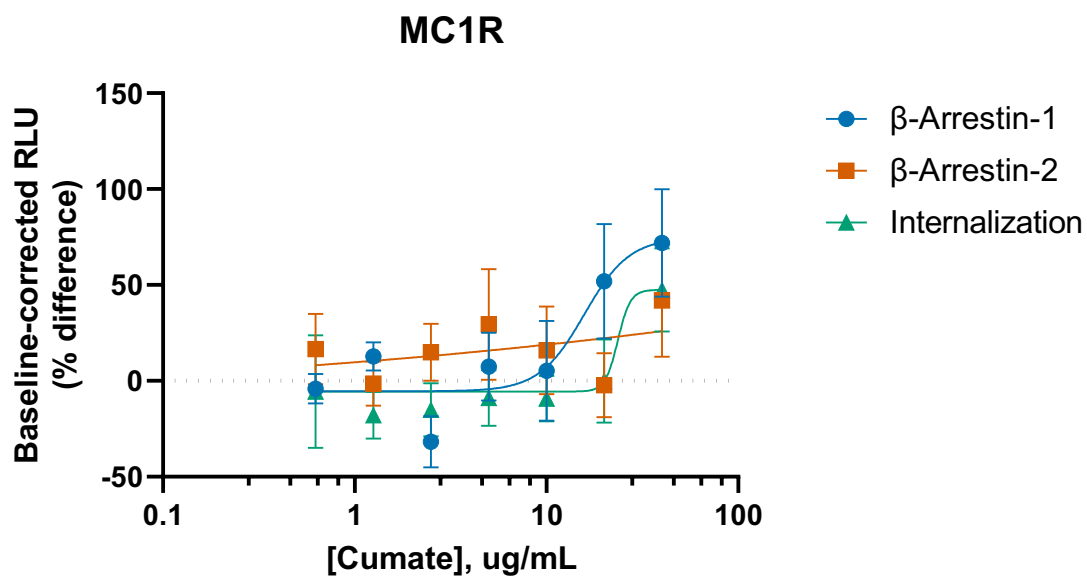


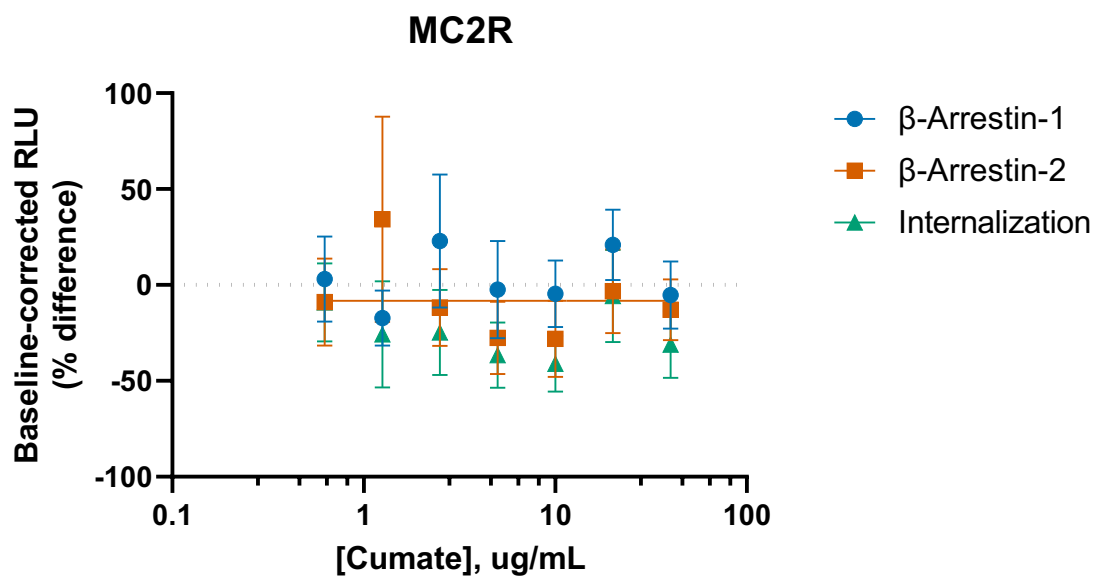


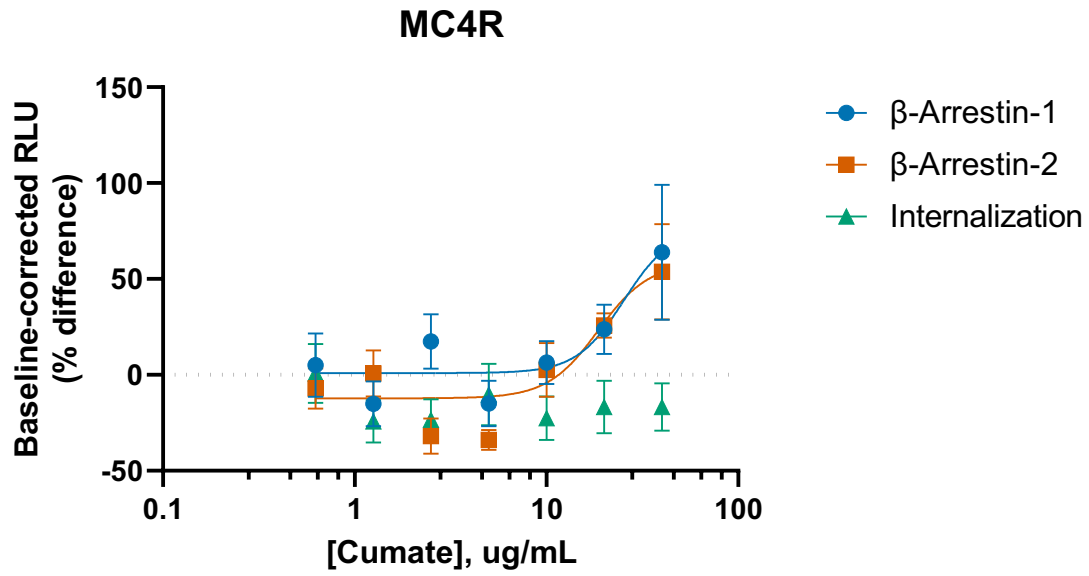




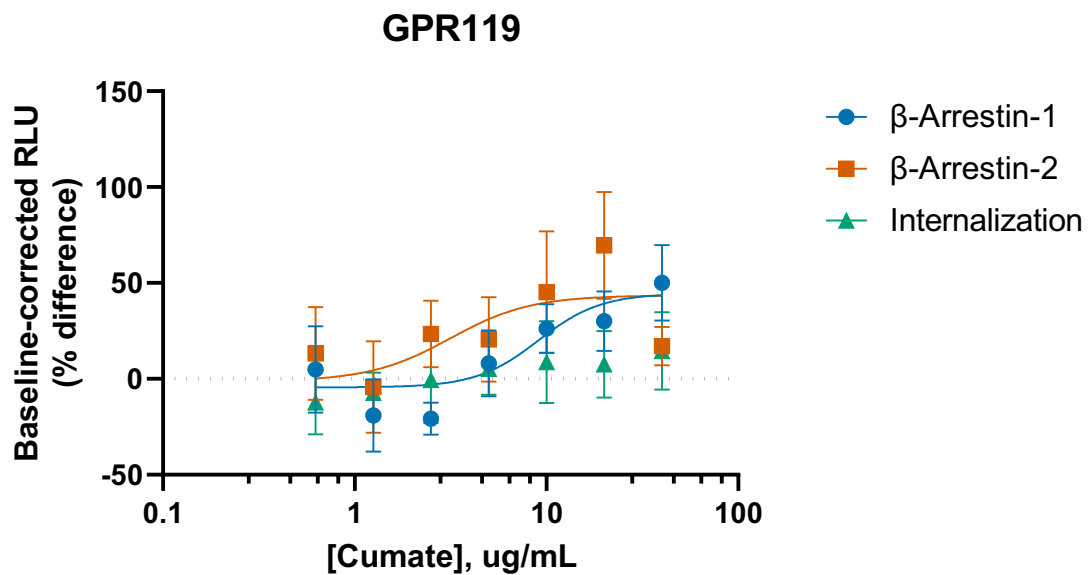


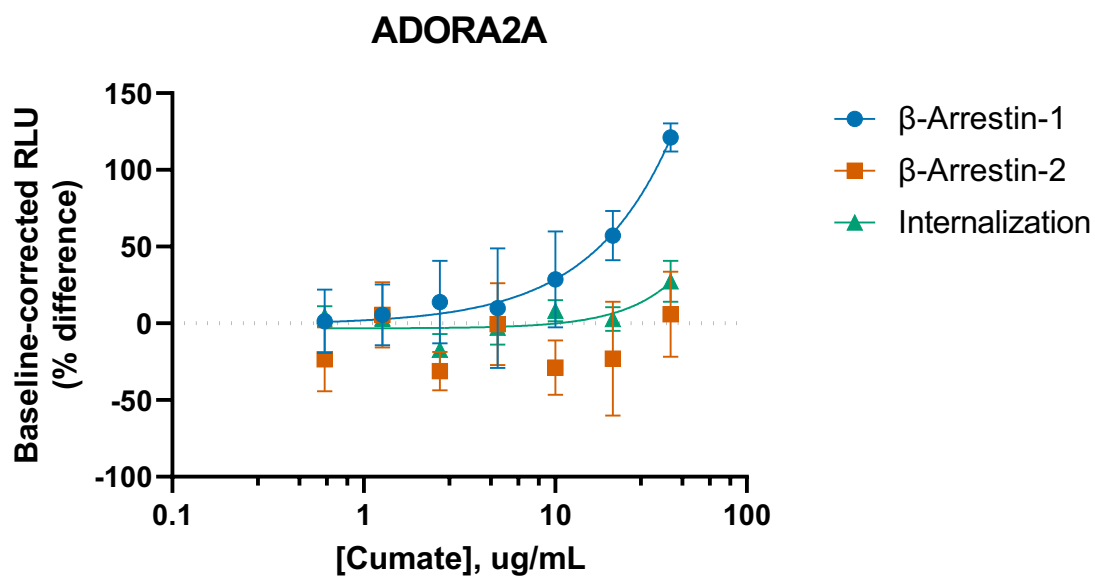


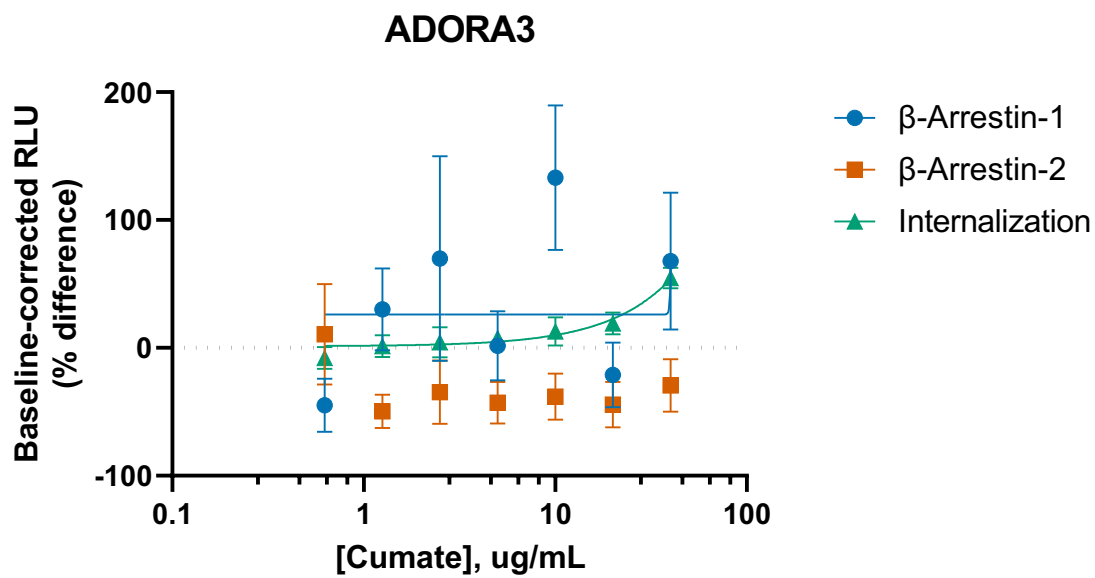


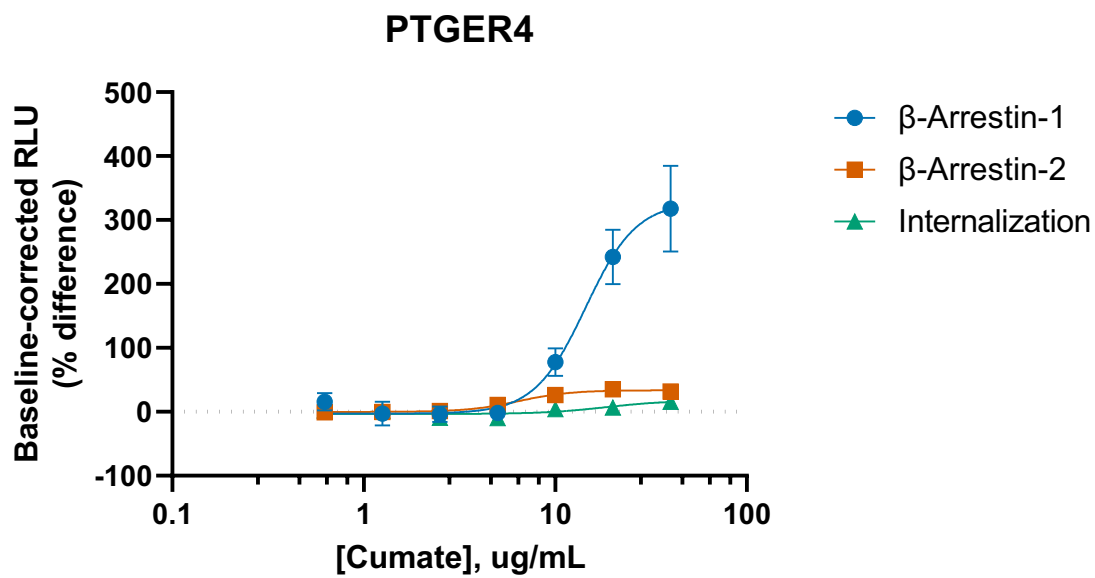


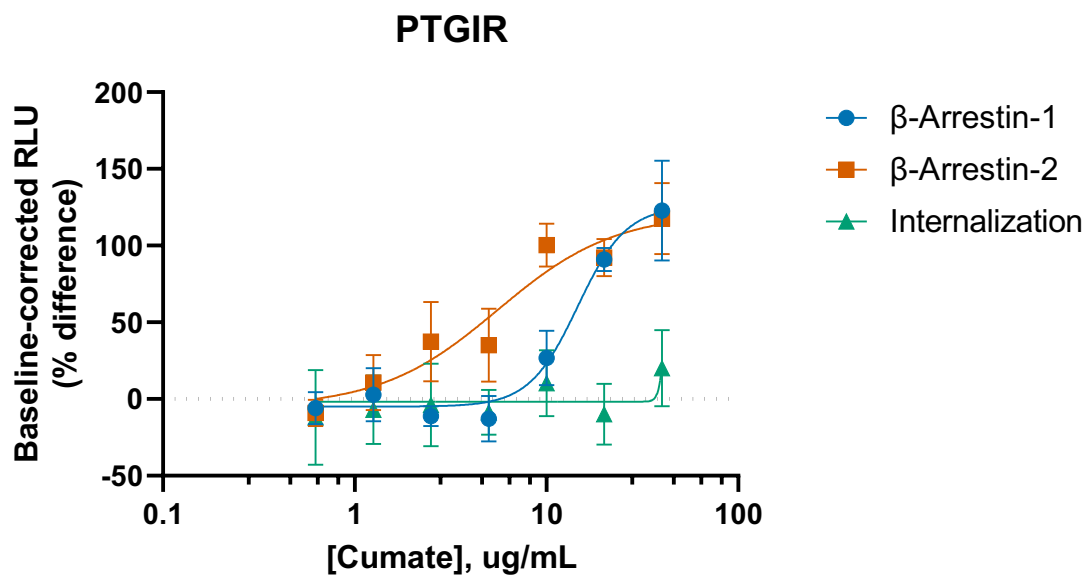
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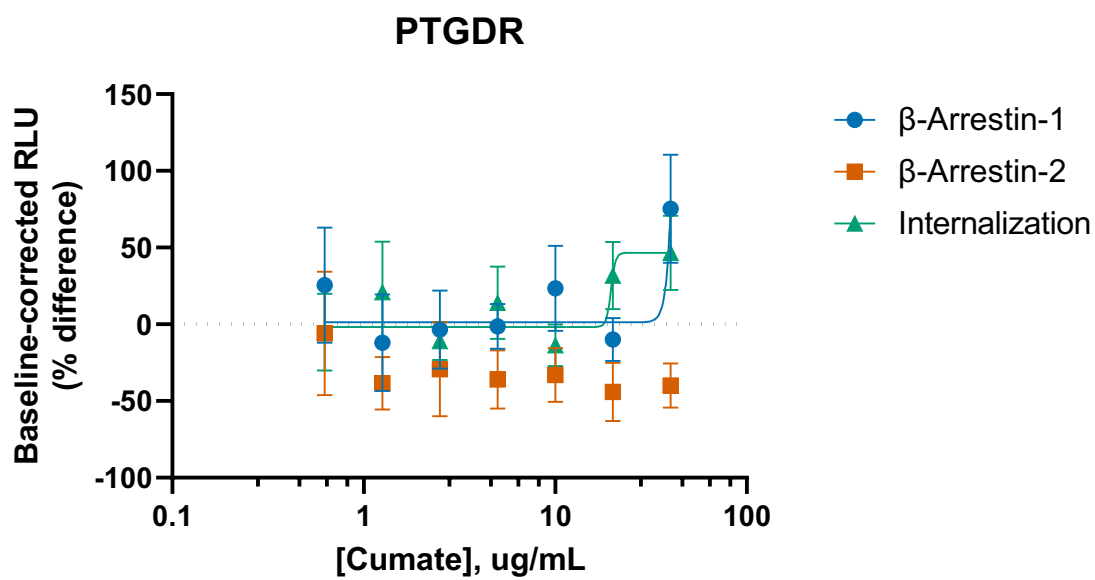




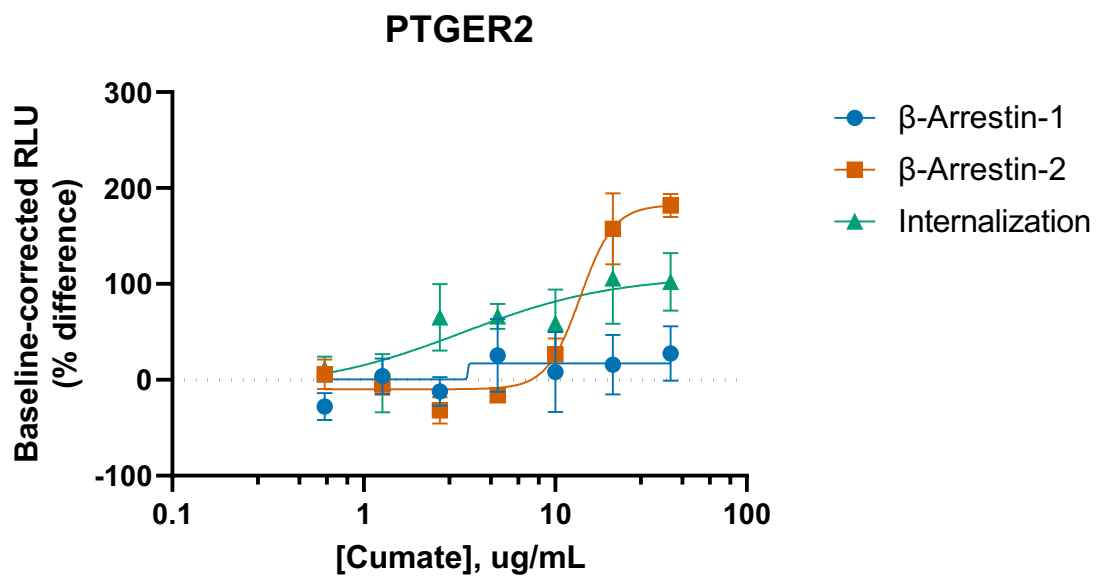


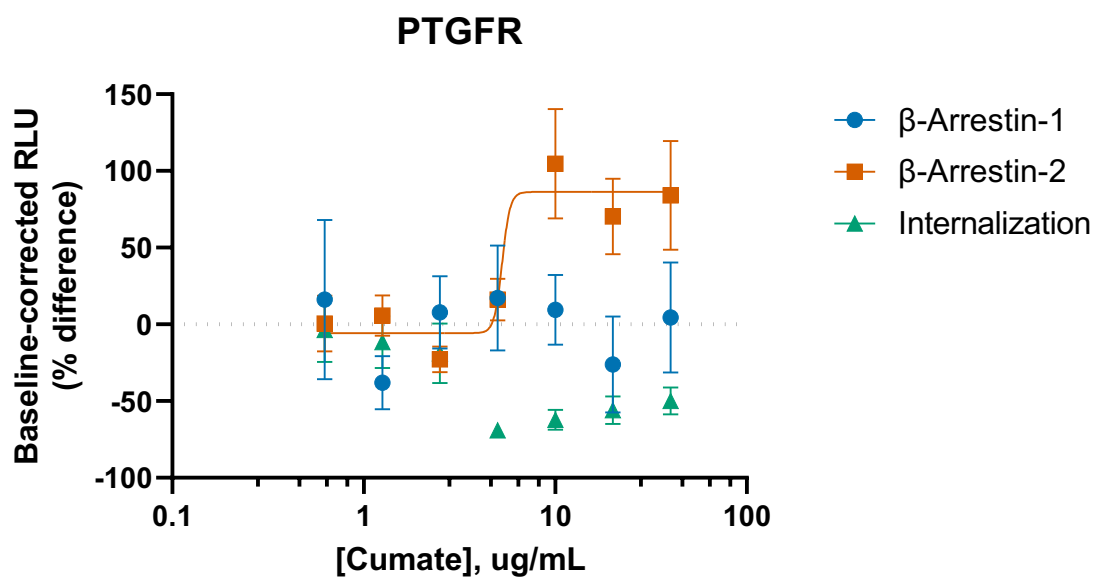




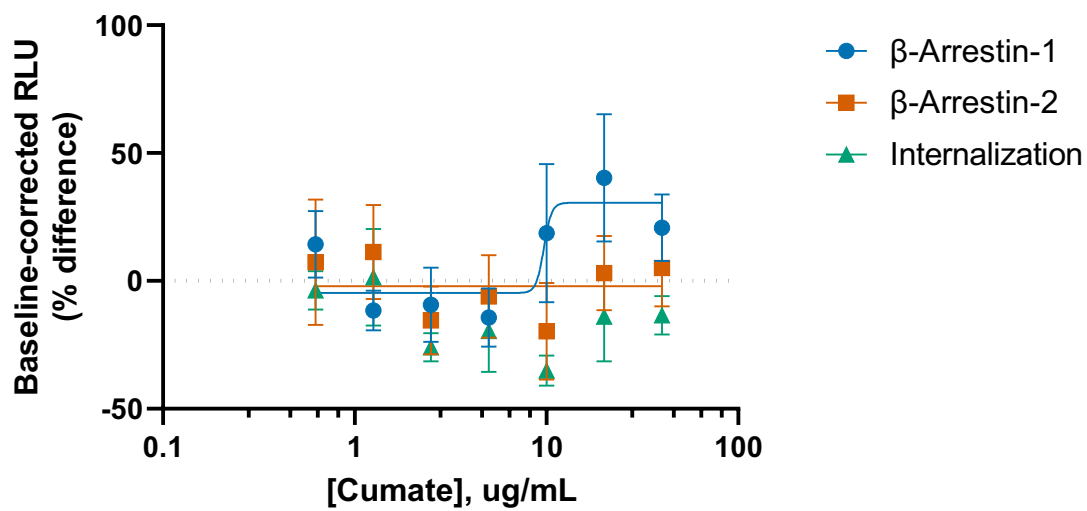


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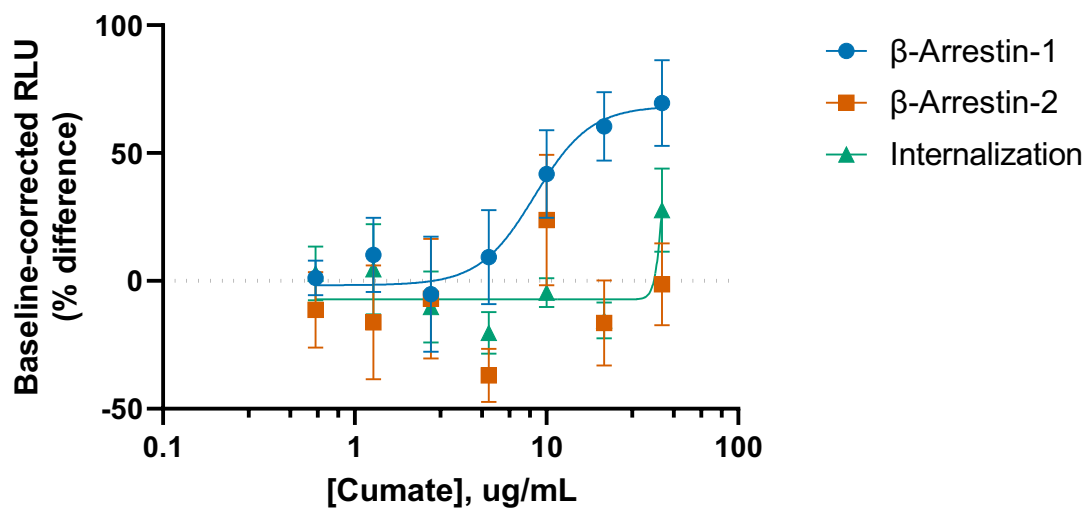




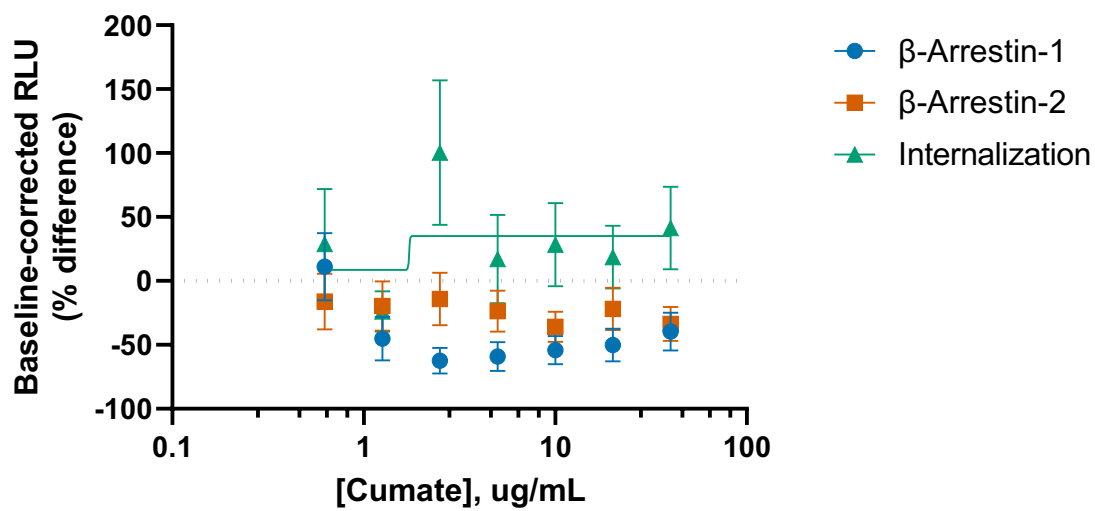
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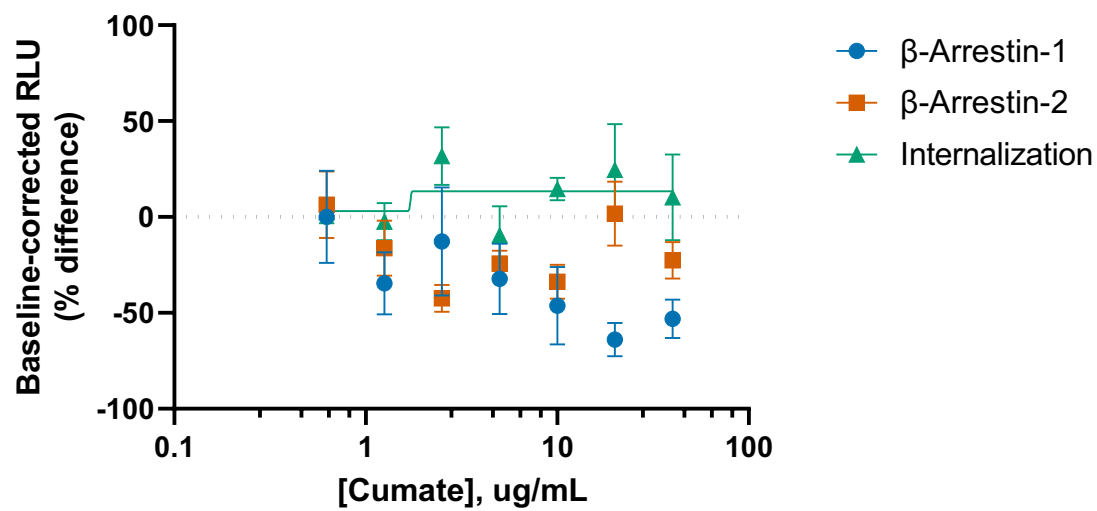
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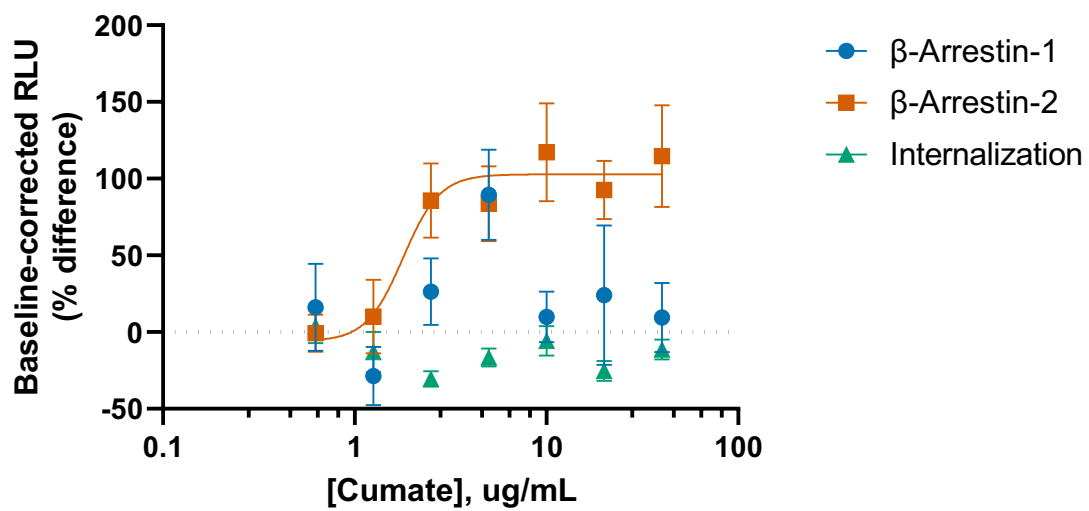
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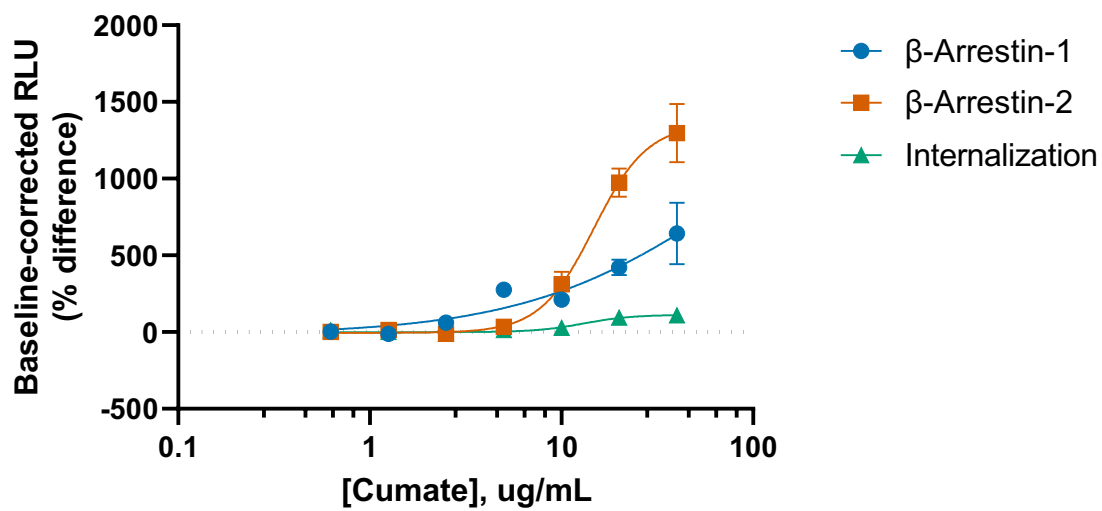
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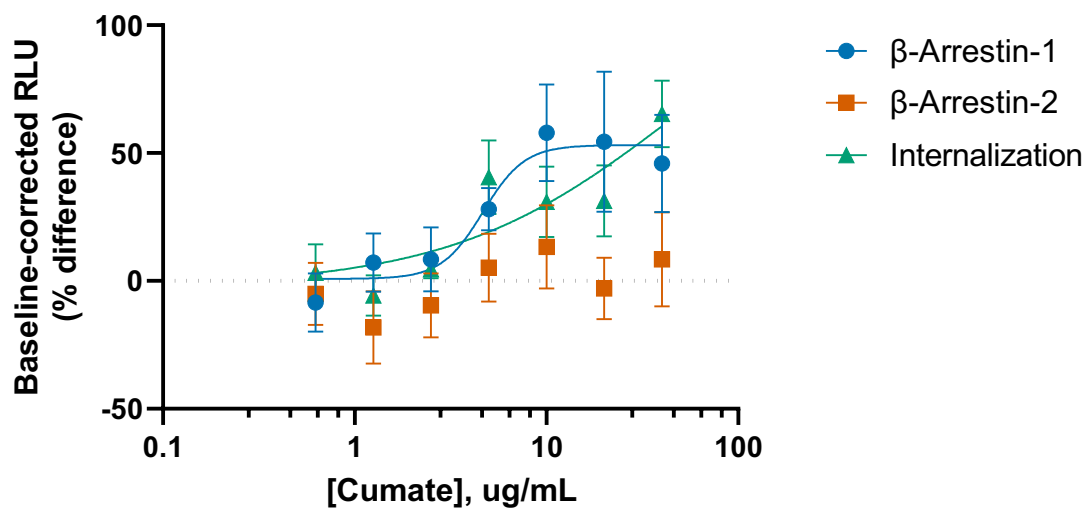
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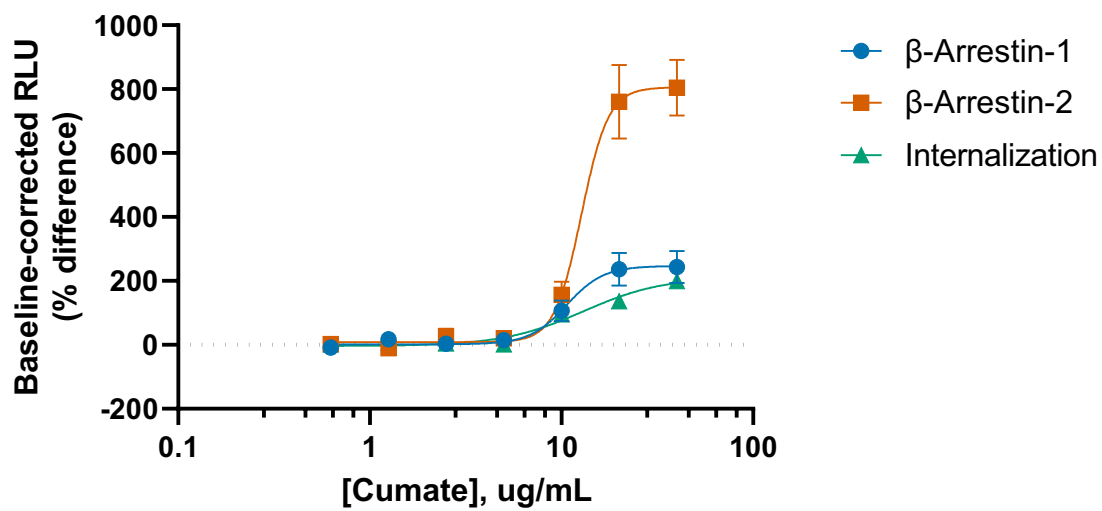
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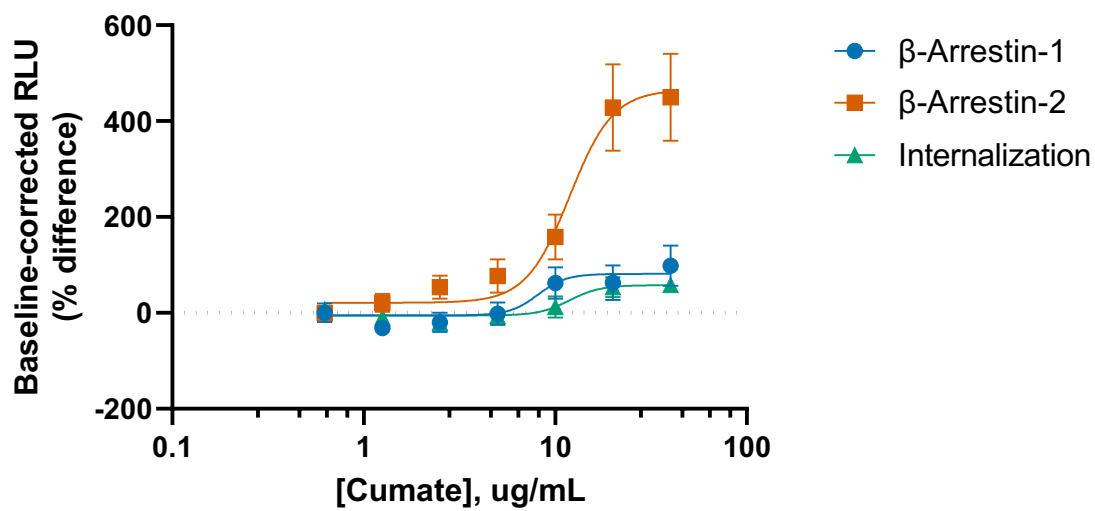
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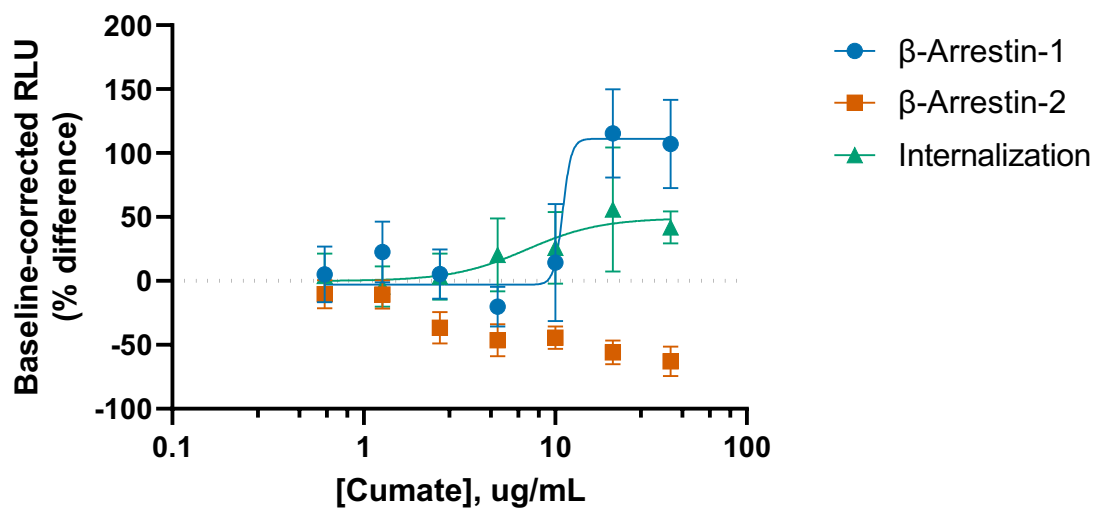
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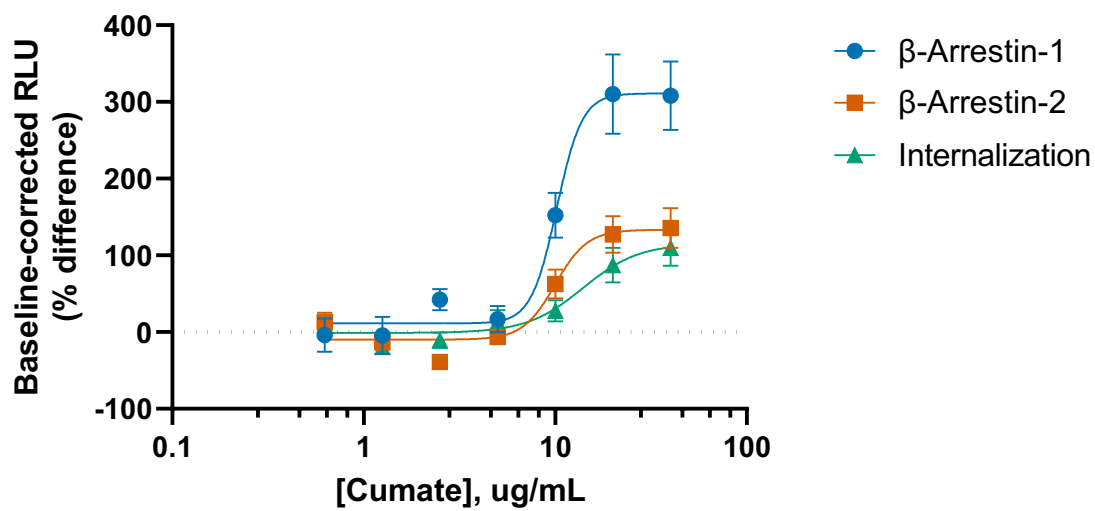
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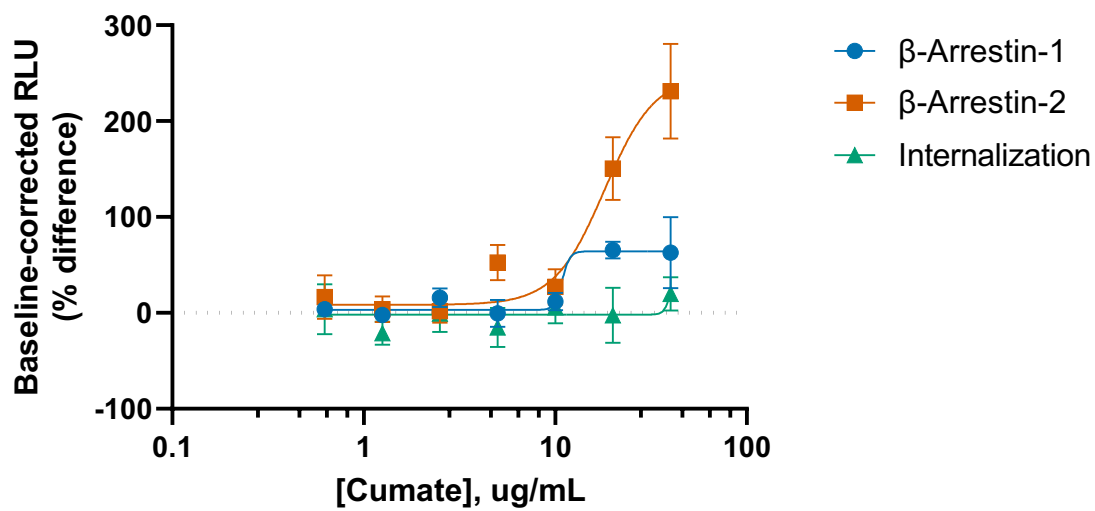
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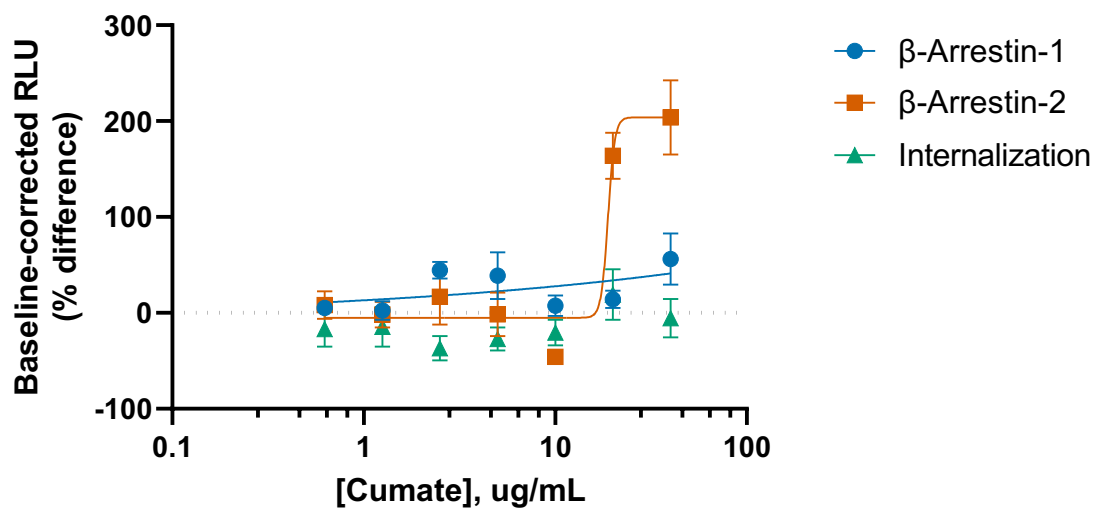
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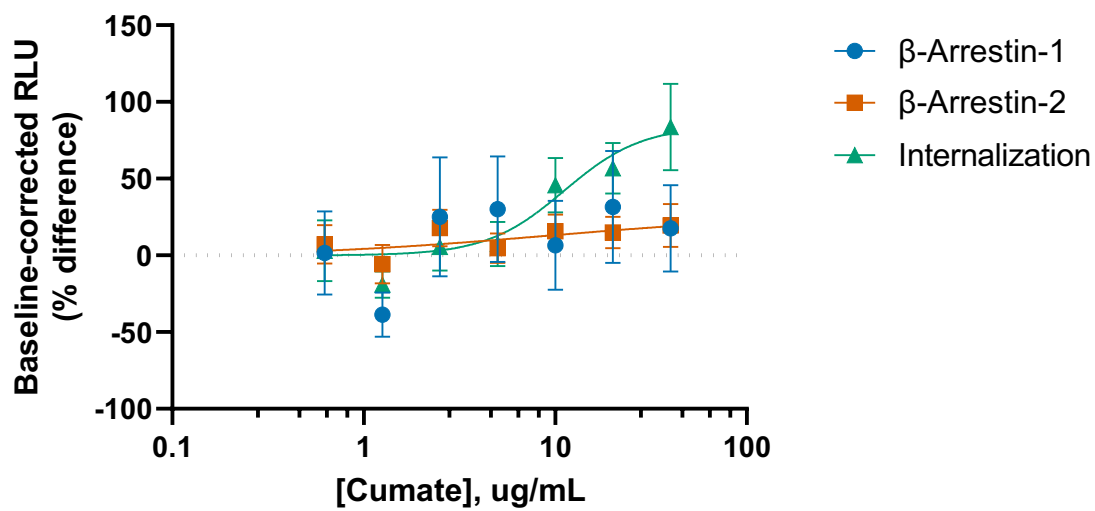
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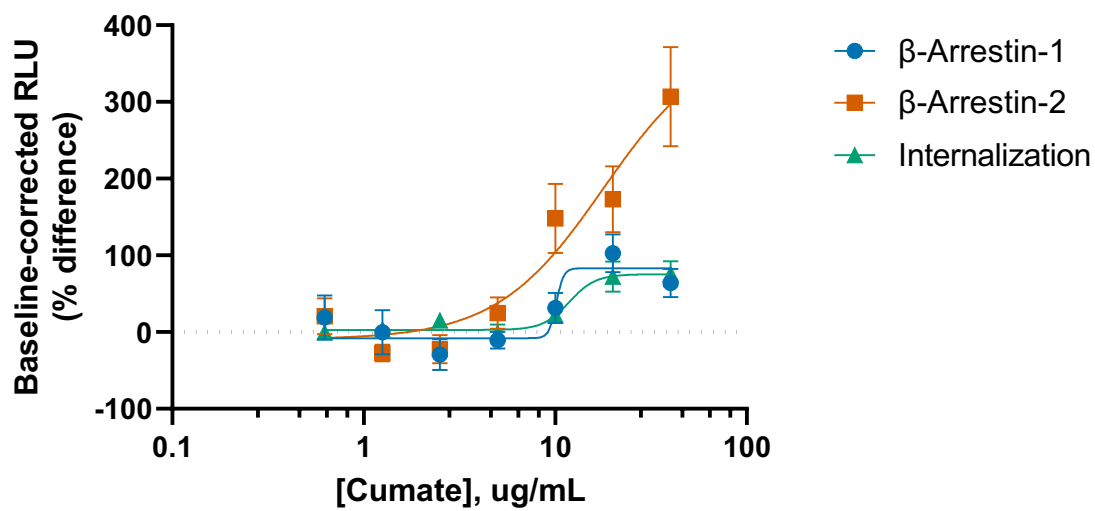
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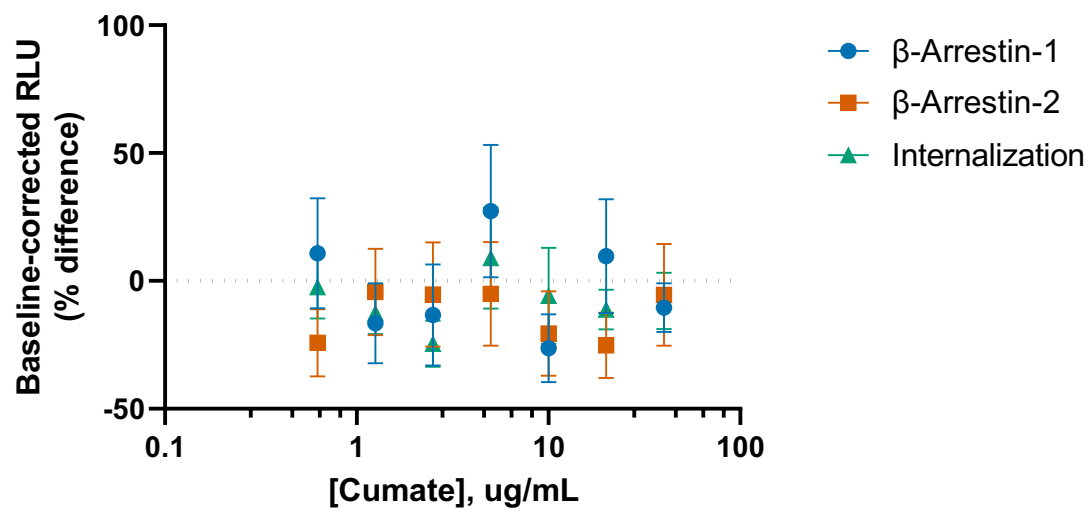
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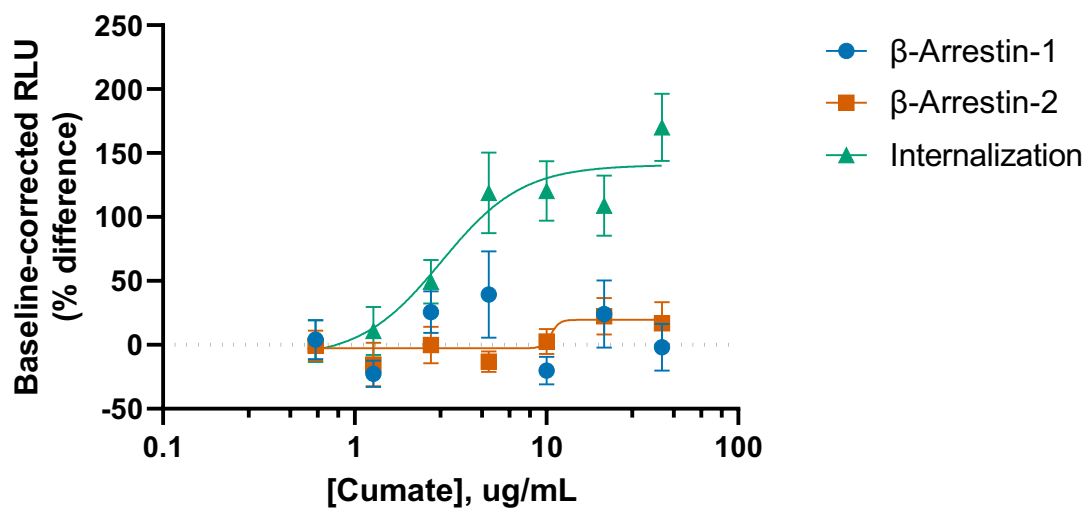
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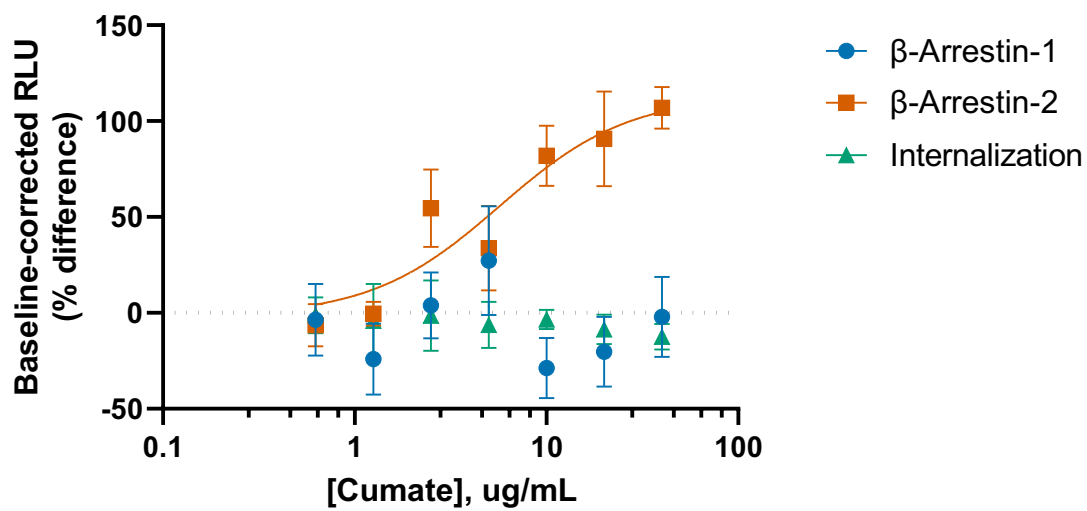
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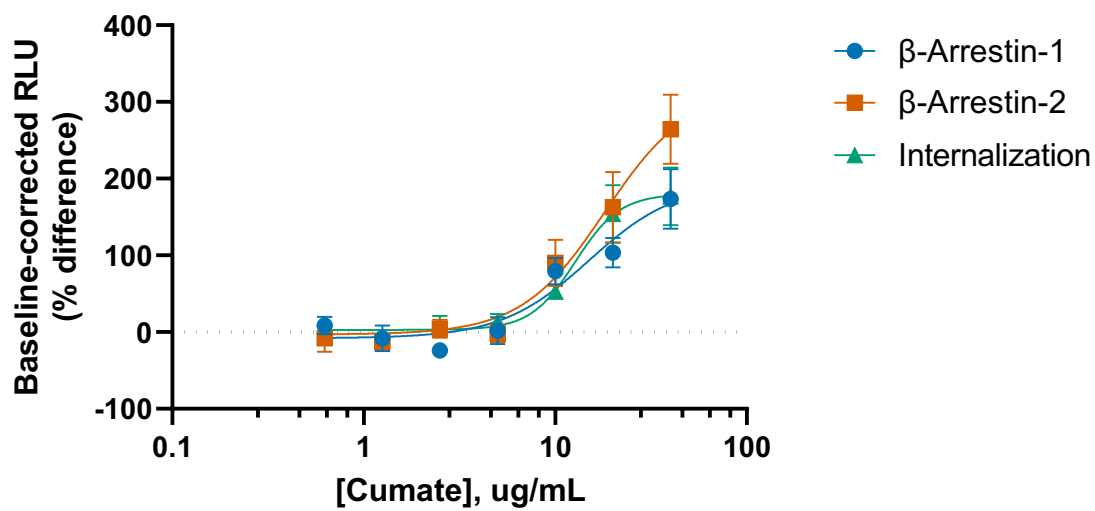
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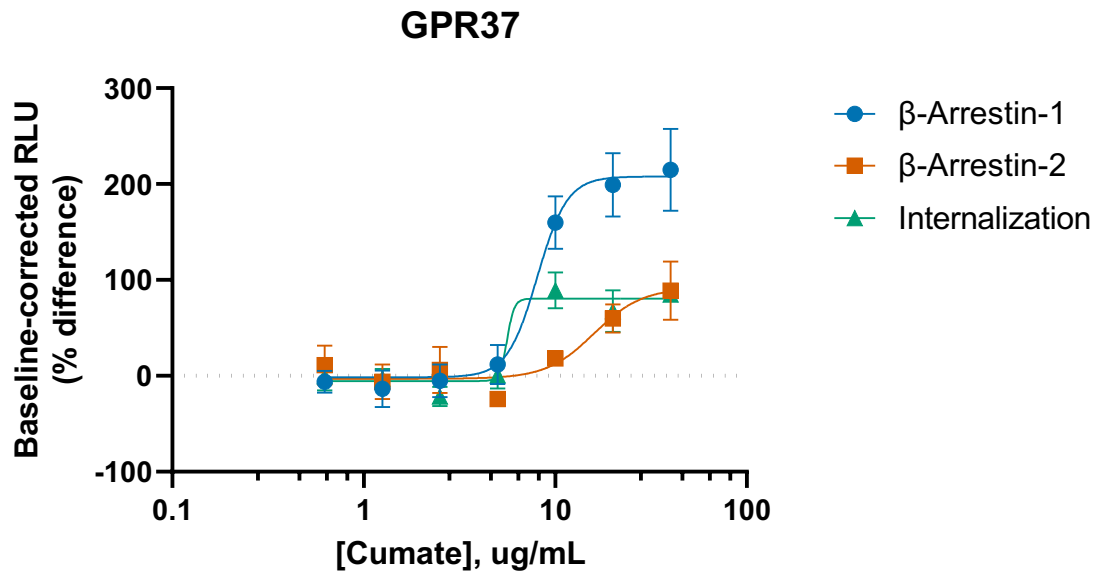


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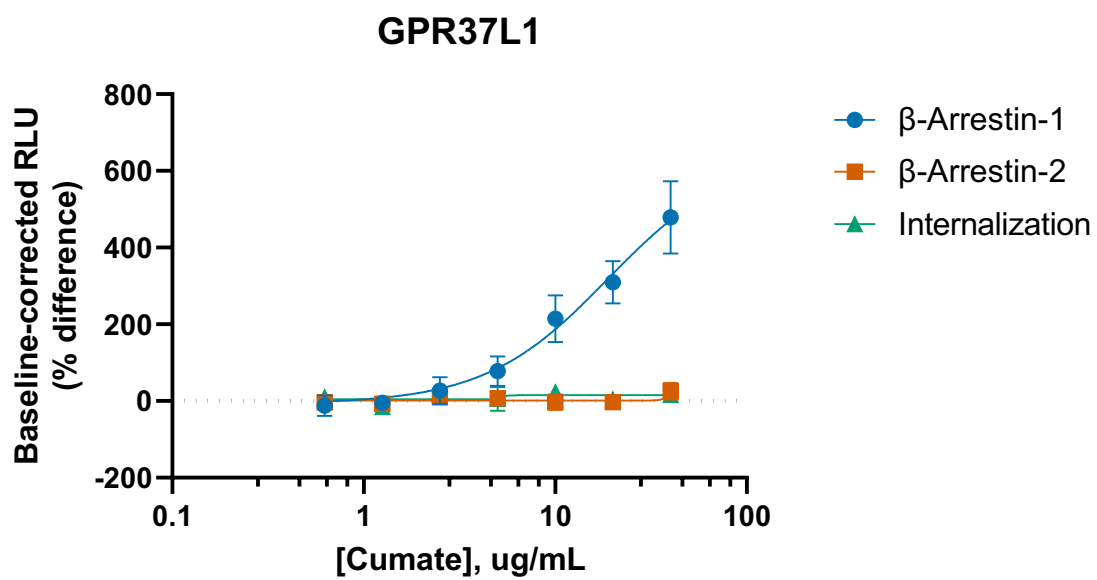


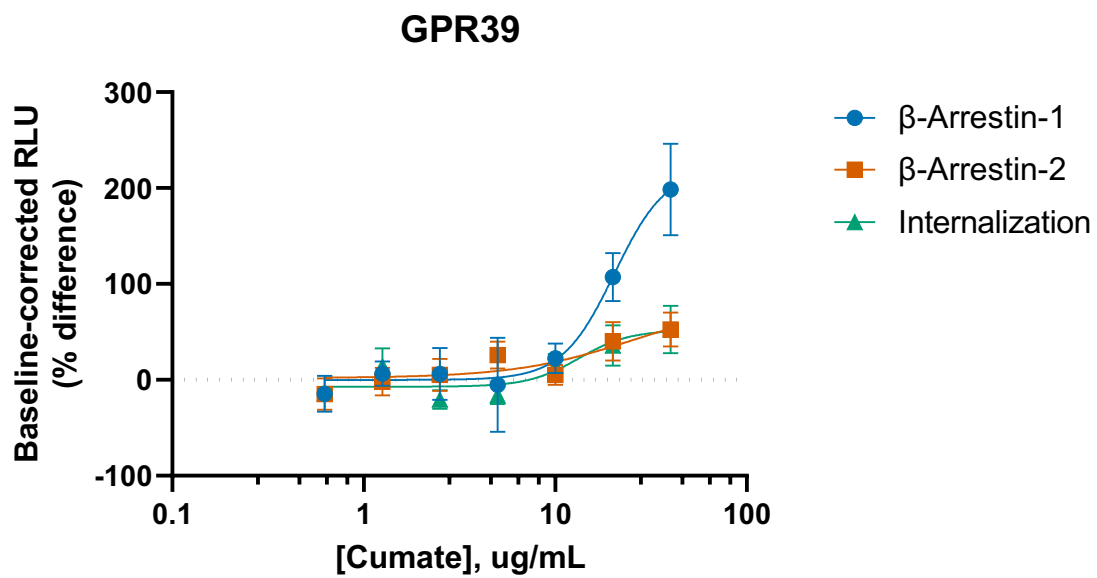
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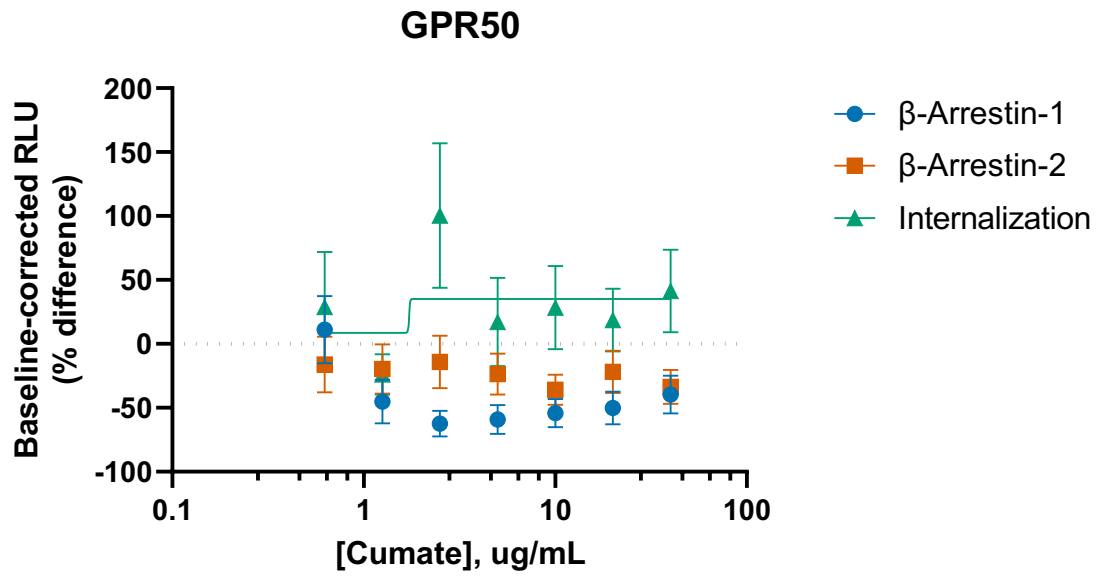




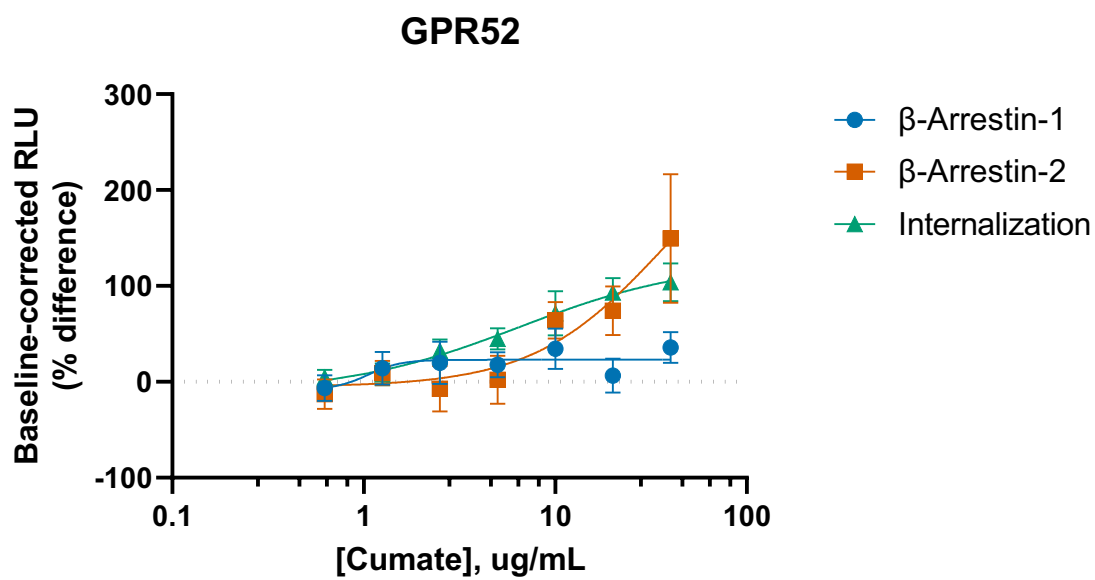
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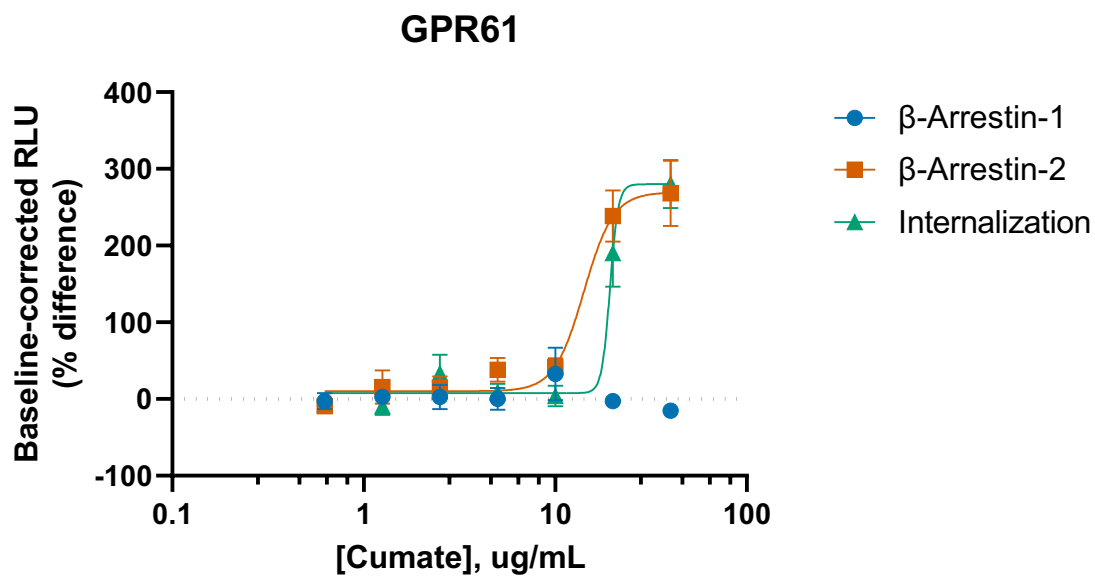


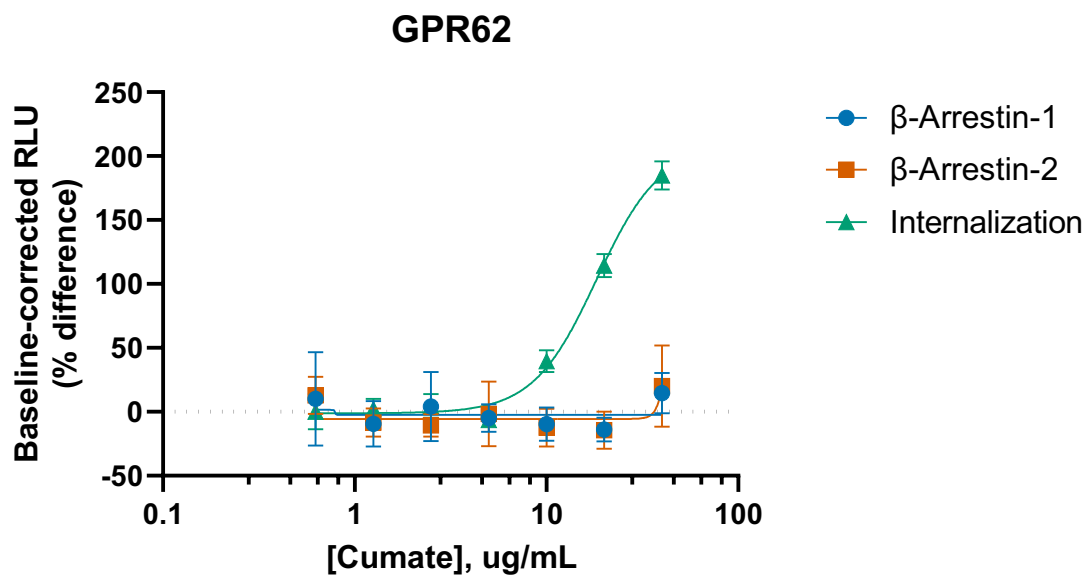


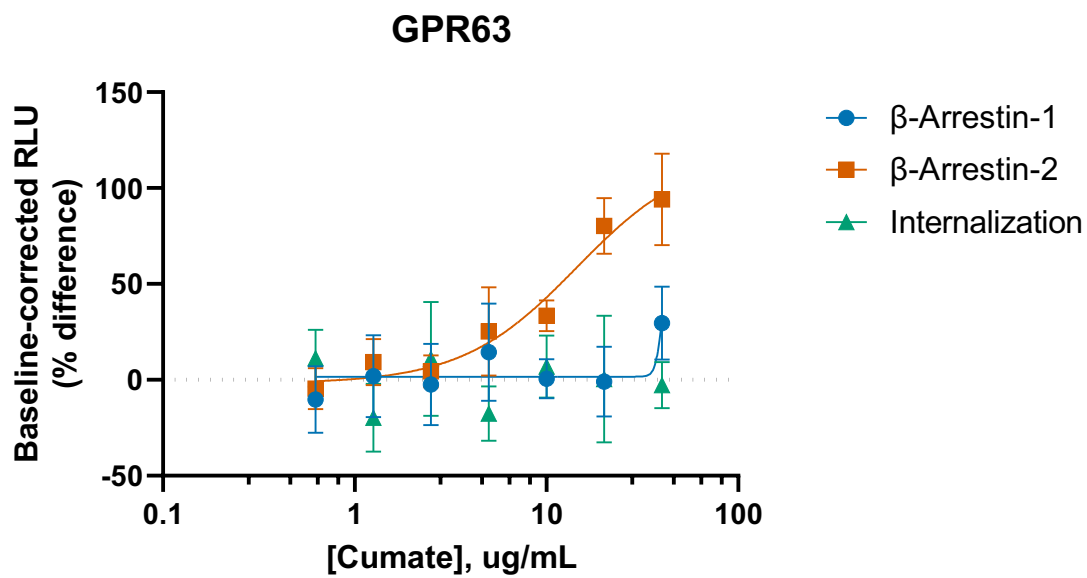
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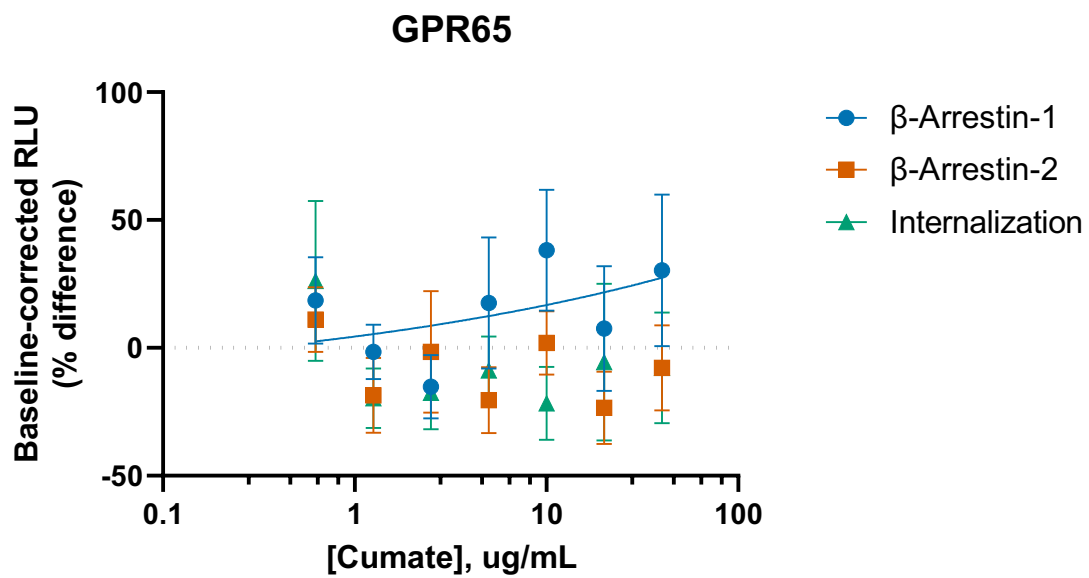
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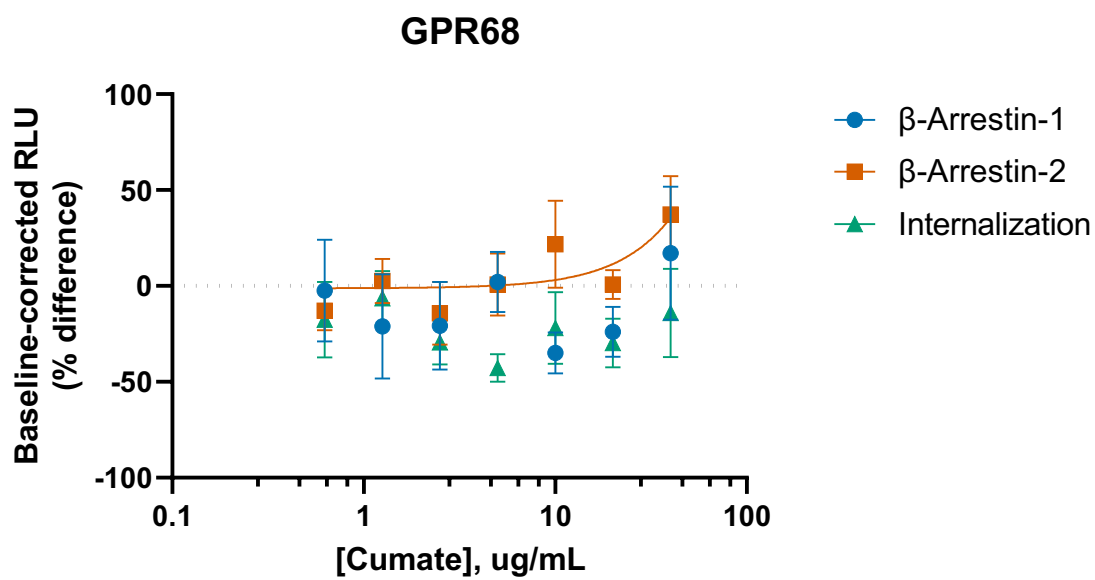


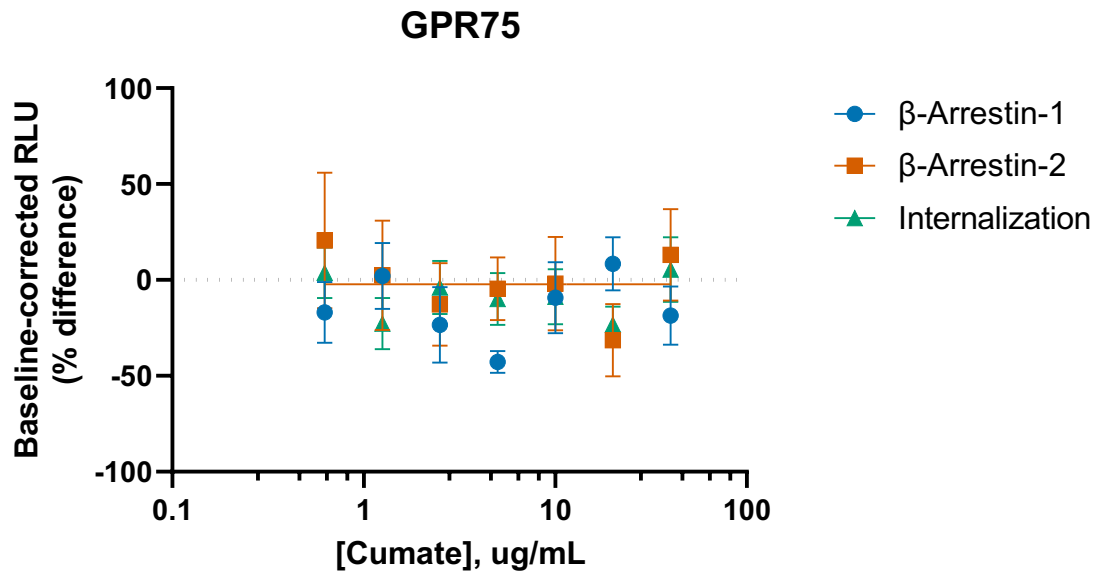


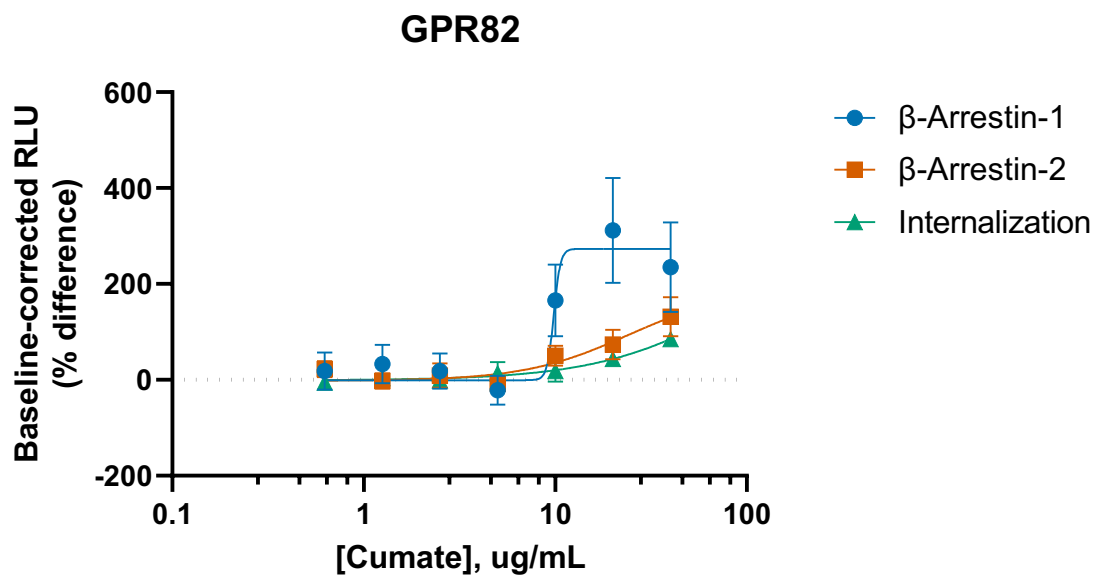
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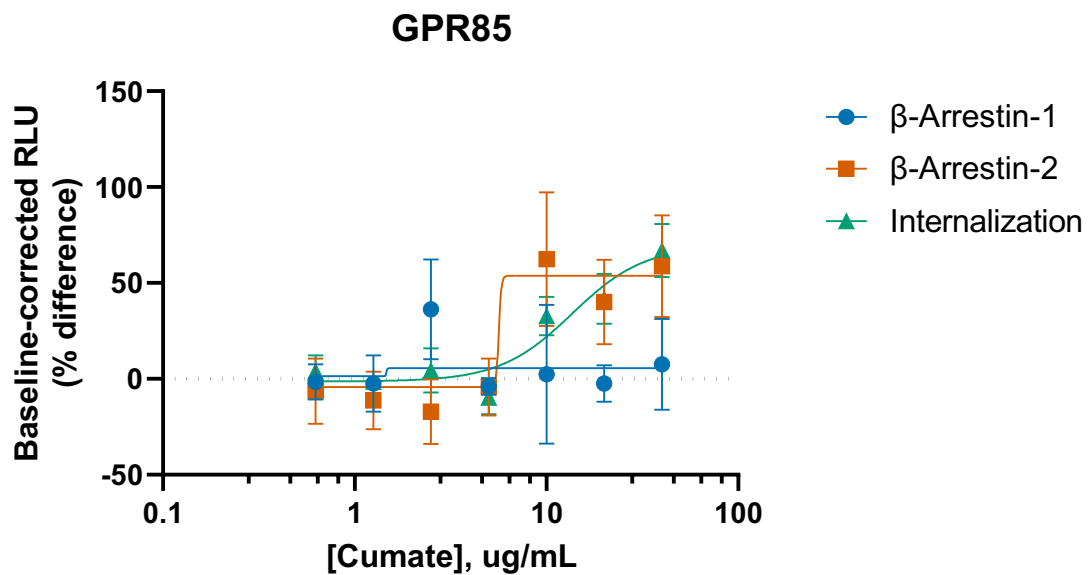
CONSTITUTIVE PROFILES – Pages 2-245
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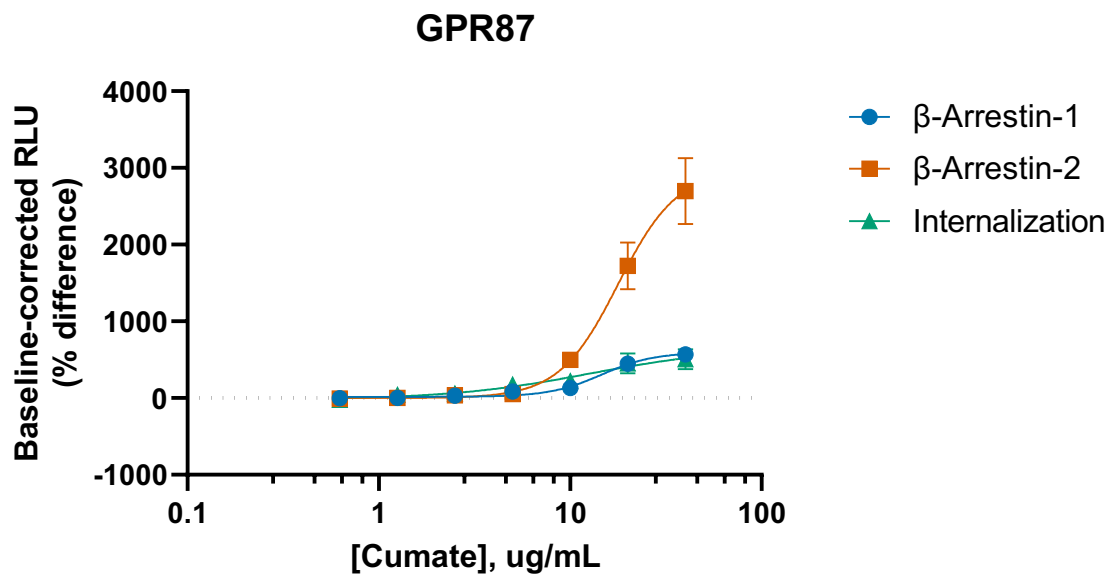


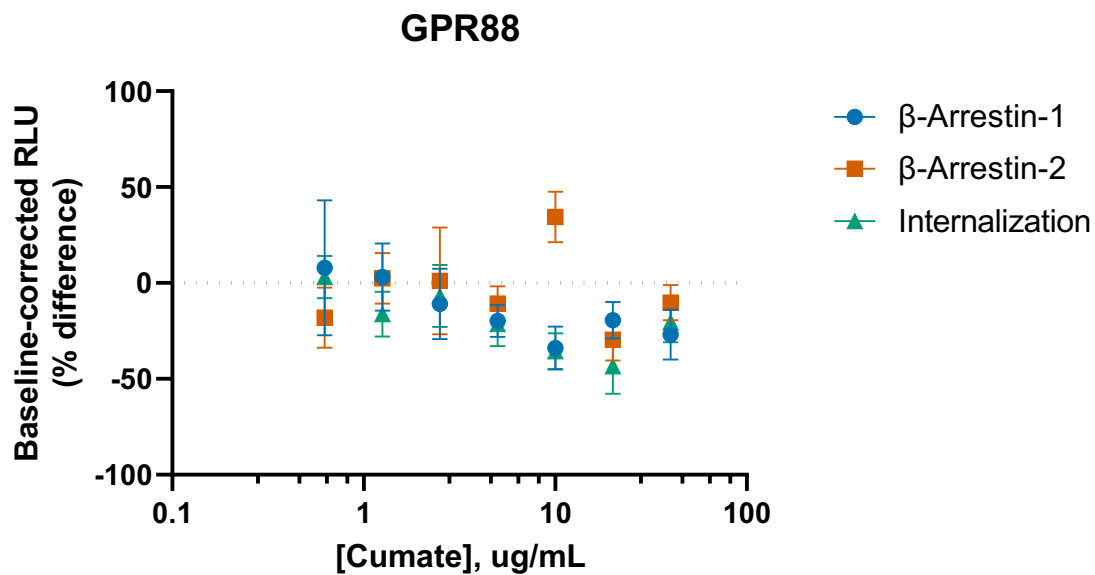


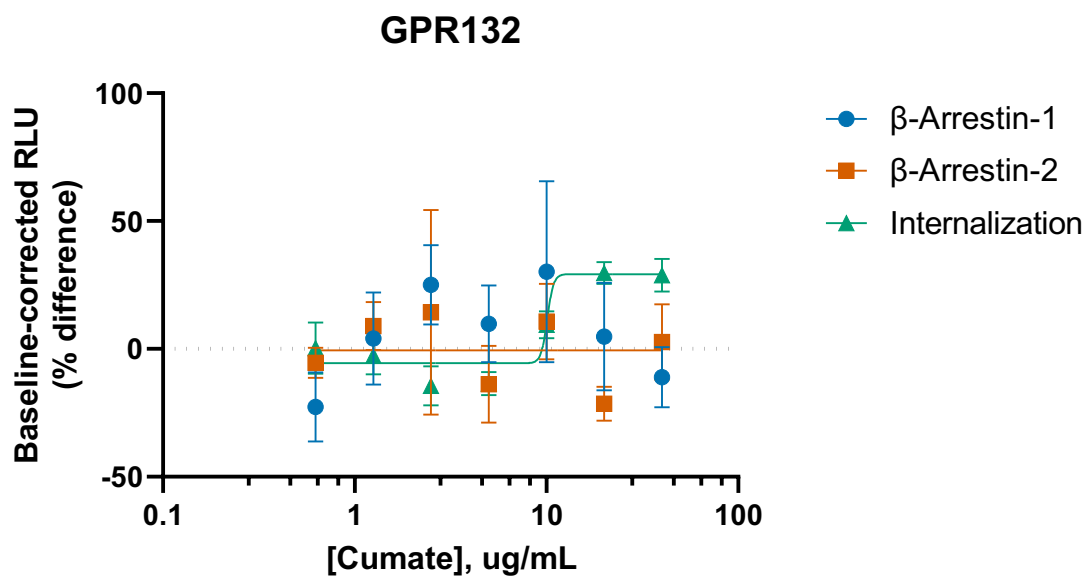


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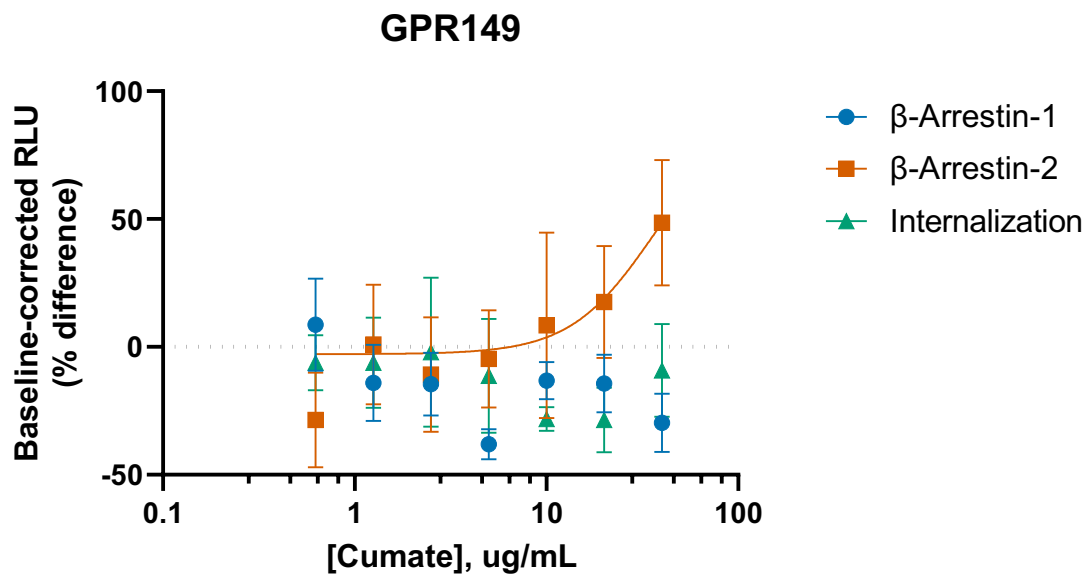




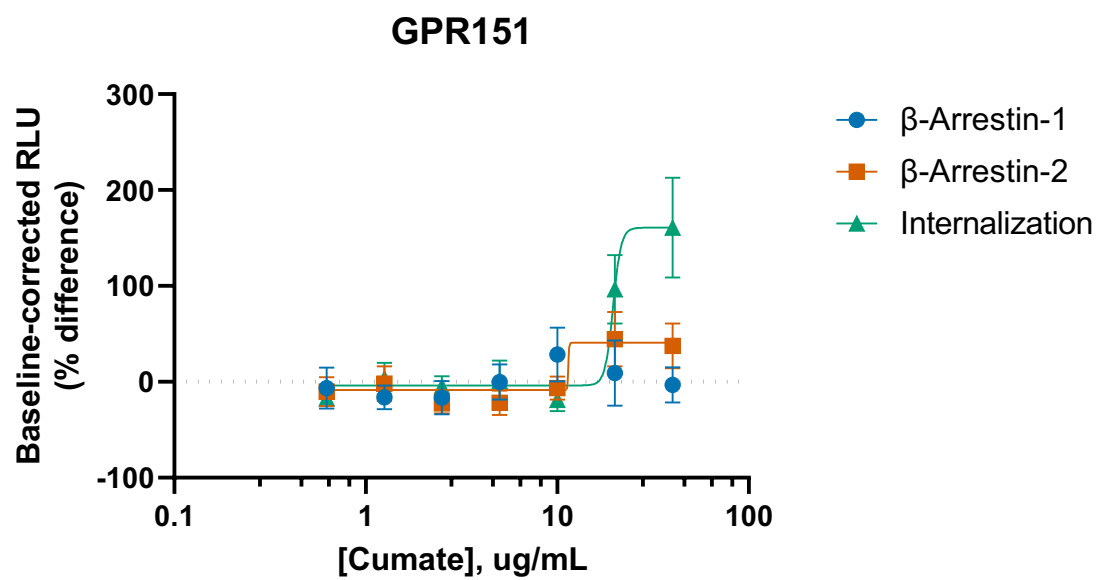


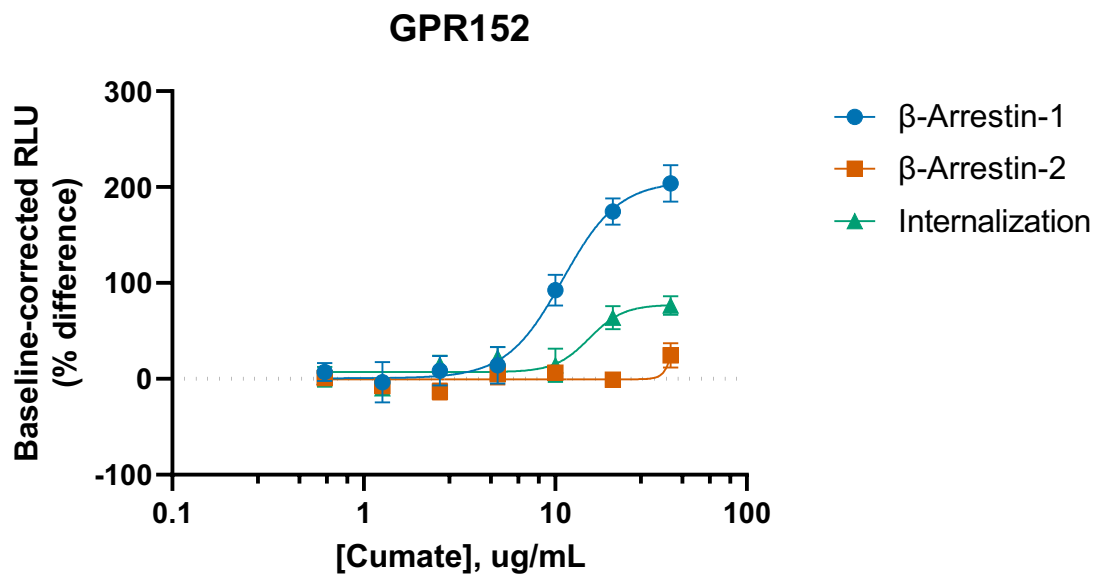


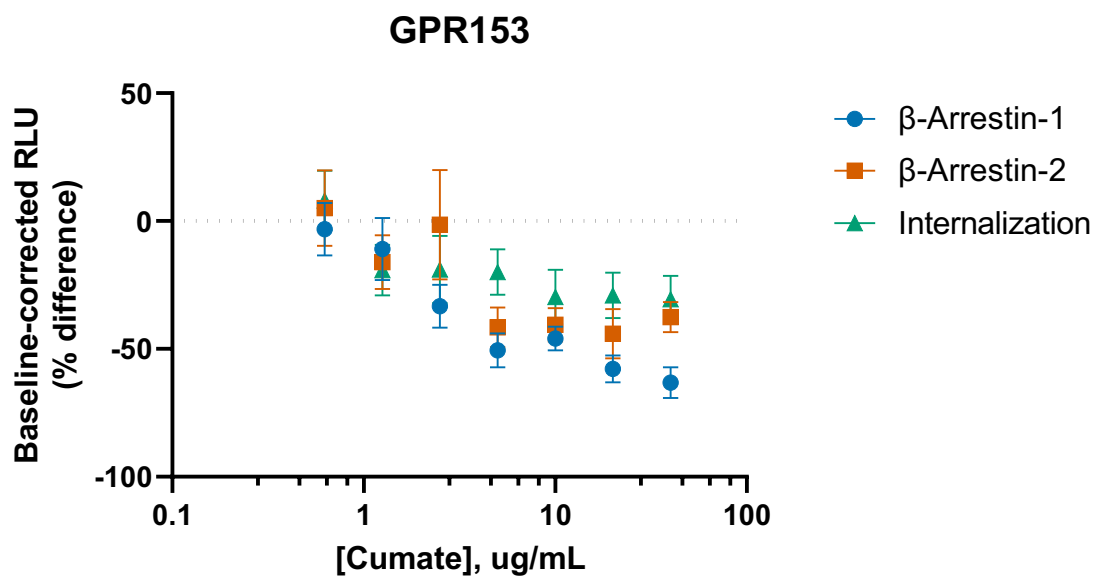
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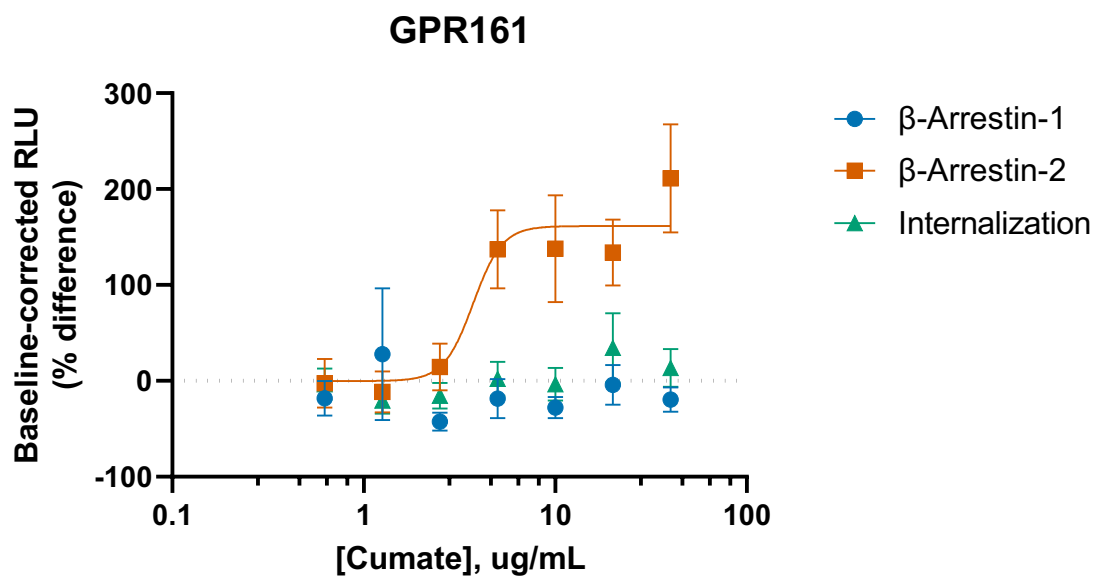


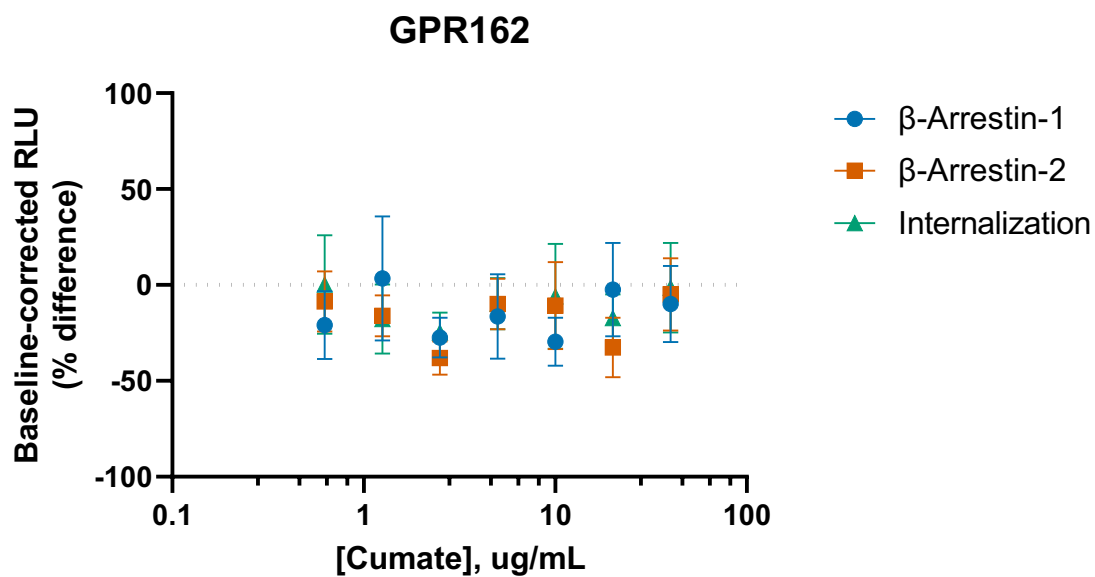
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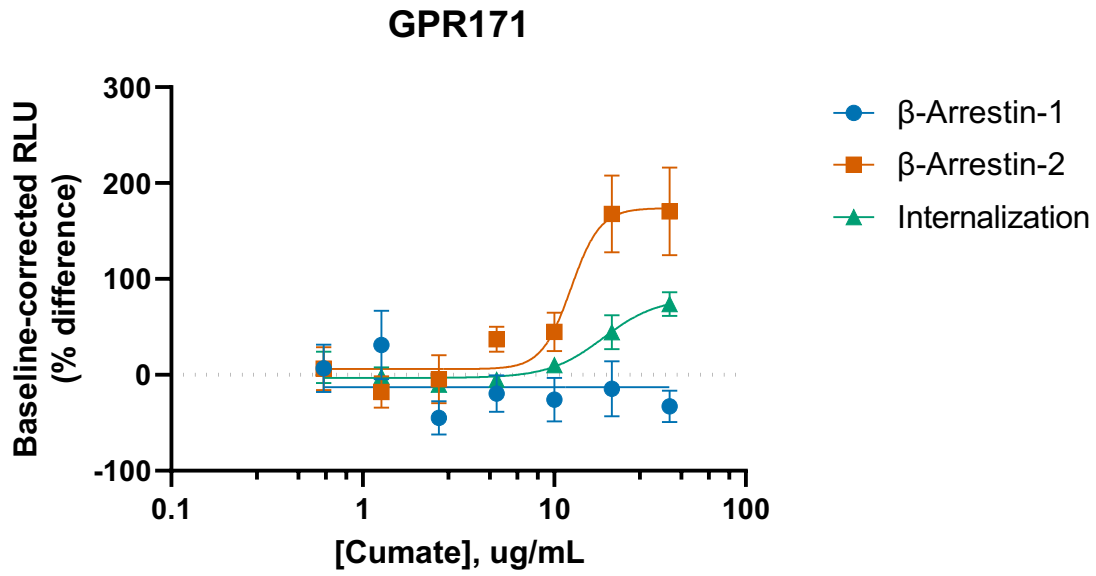




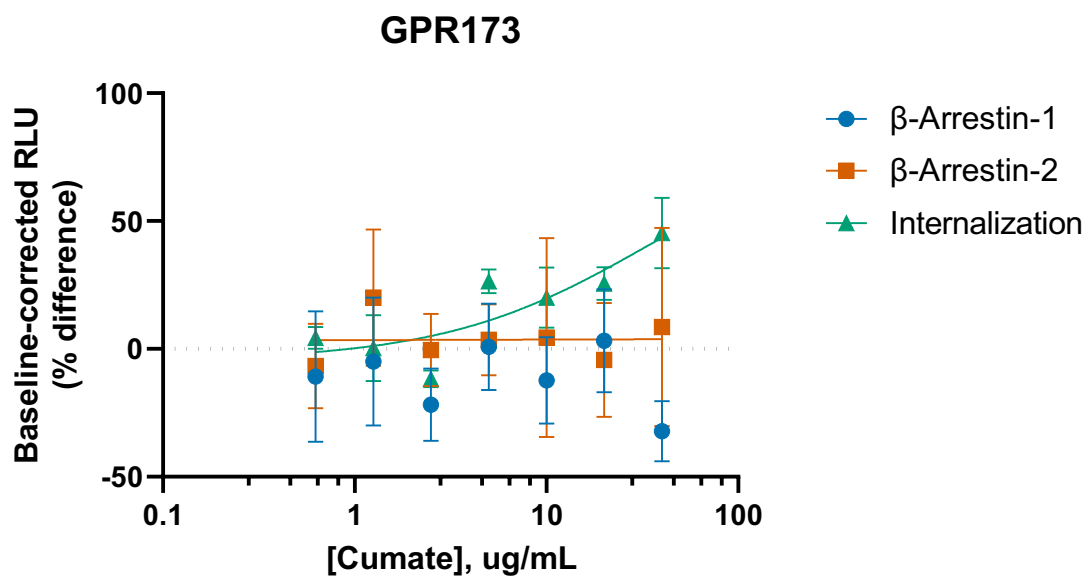




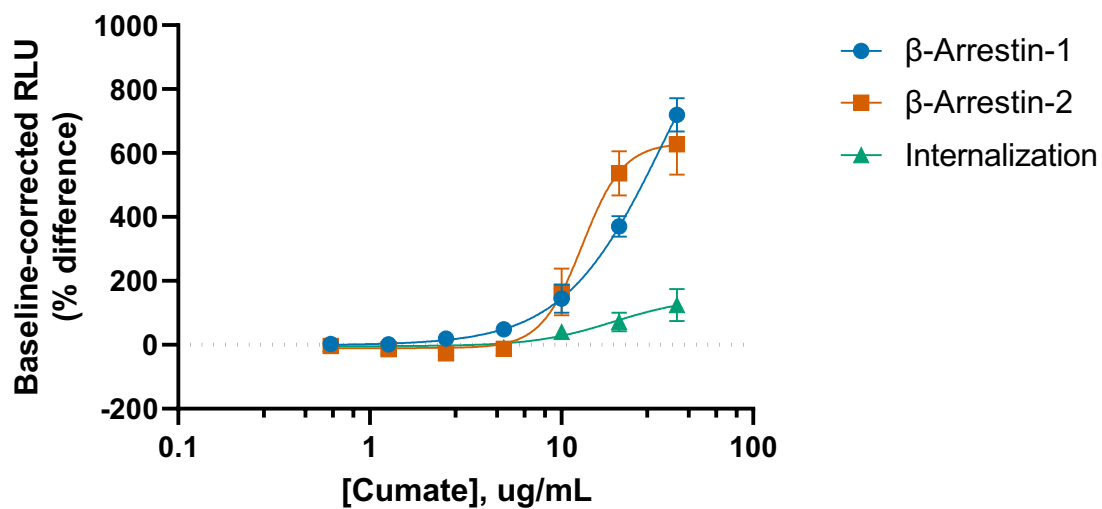




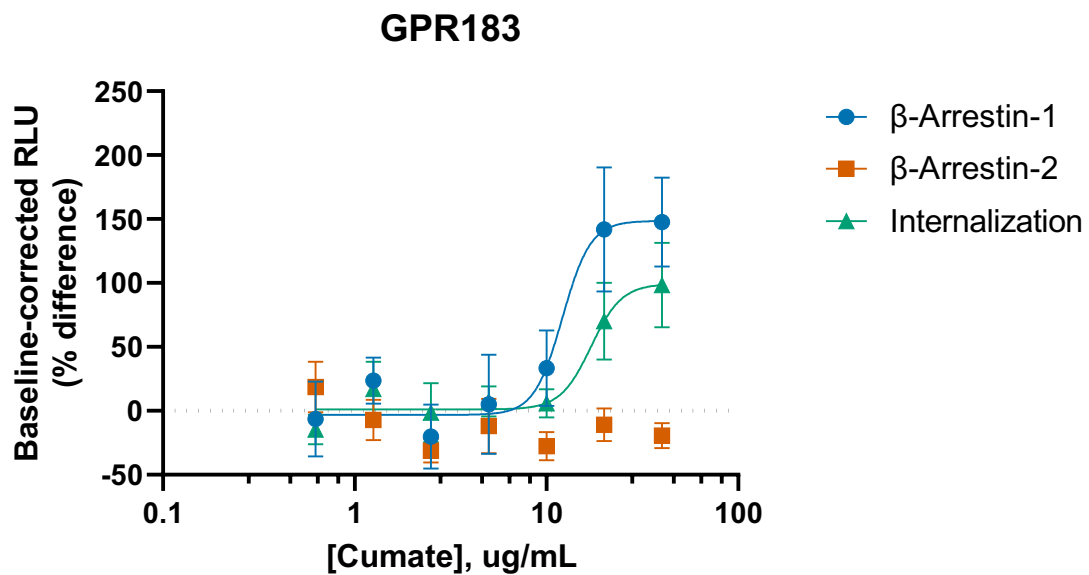
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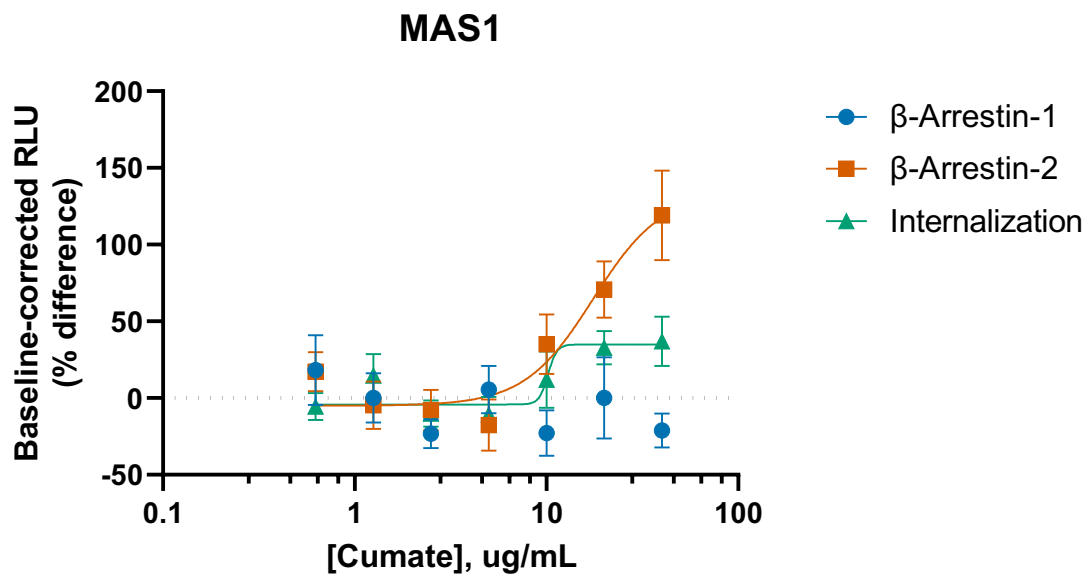


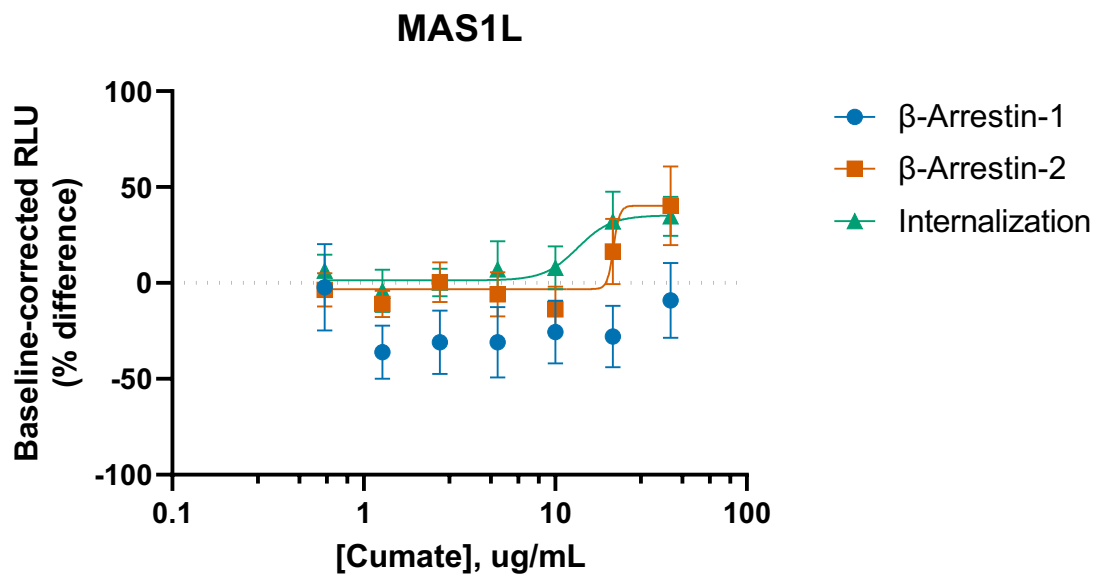
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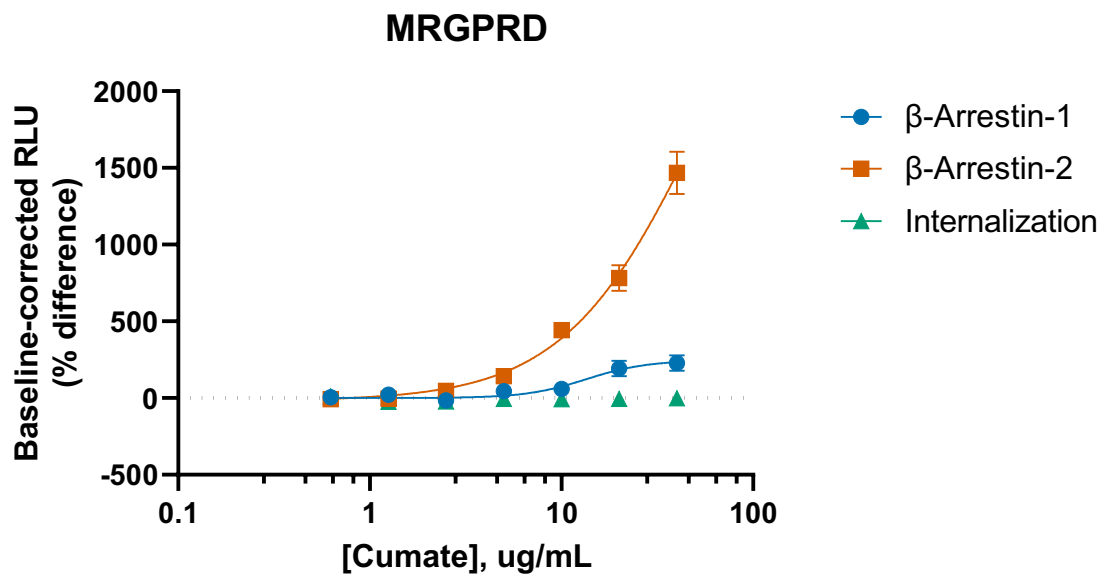


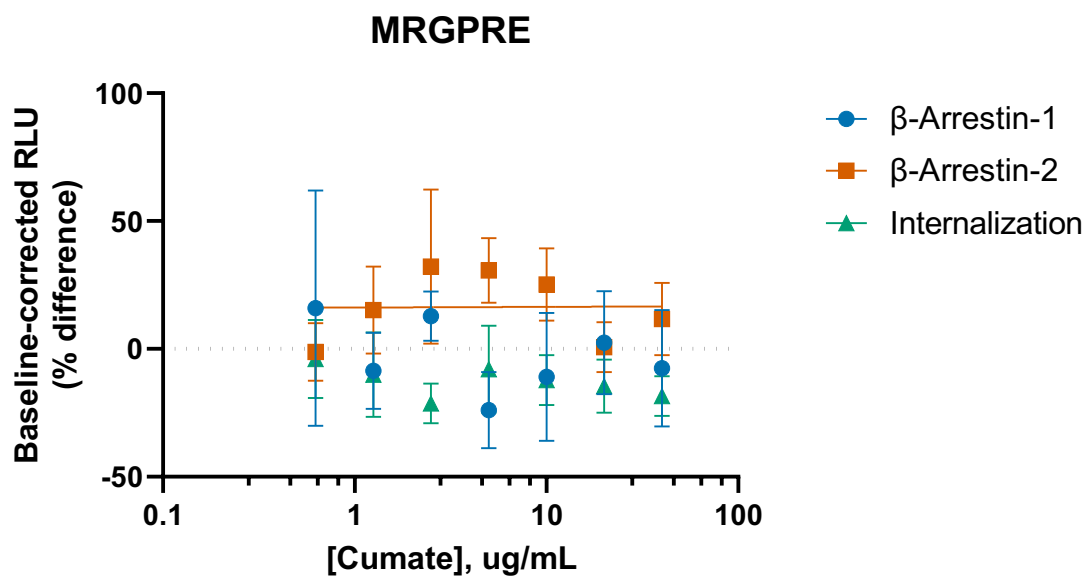
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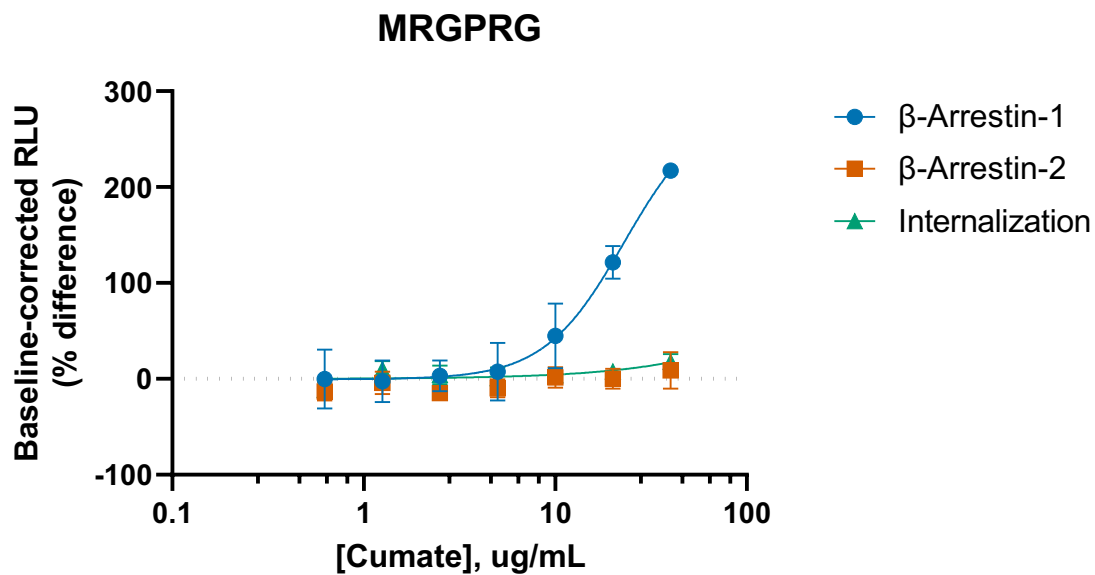


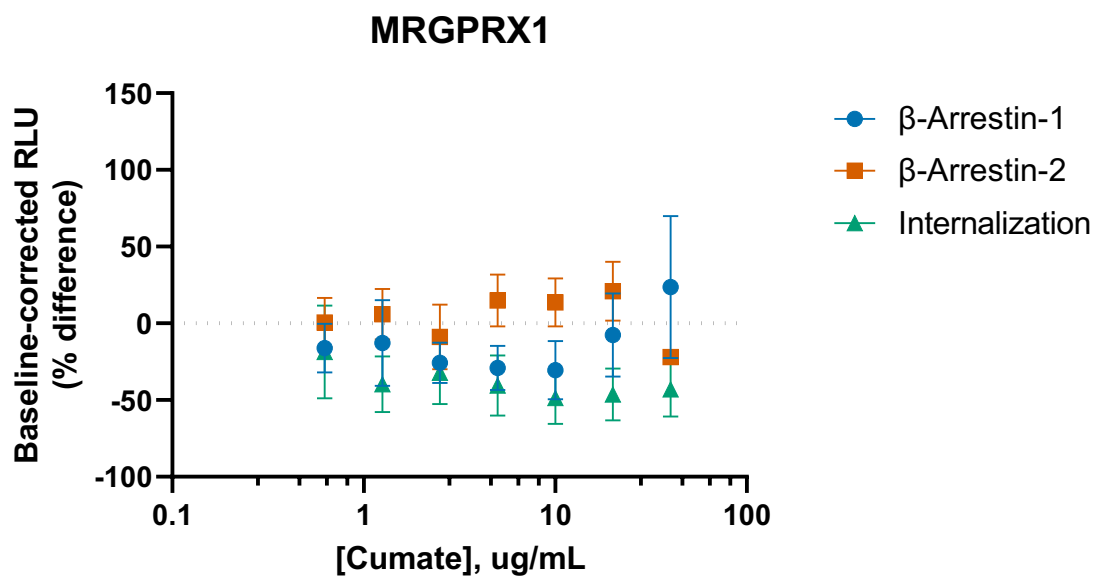




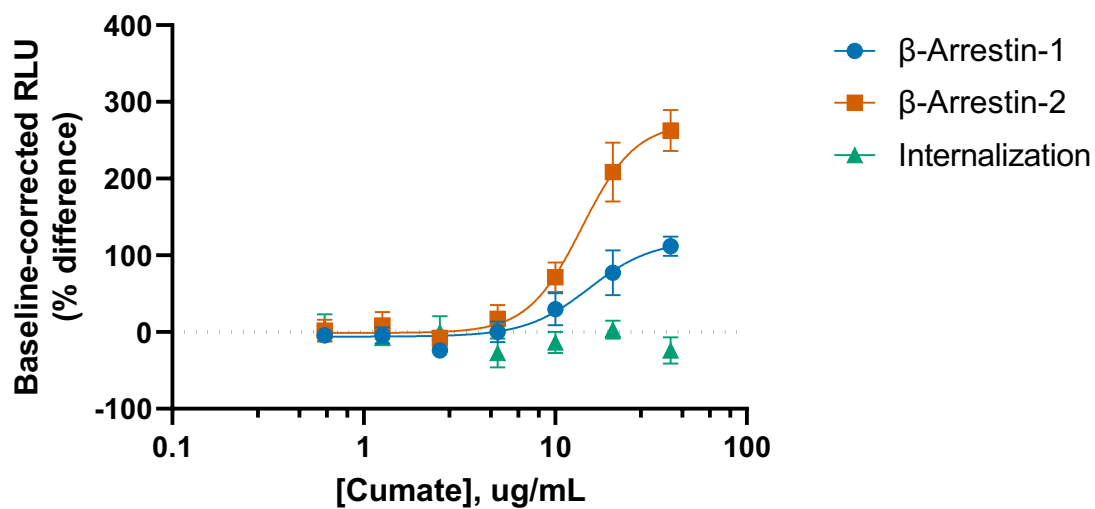


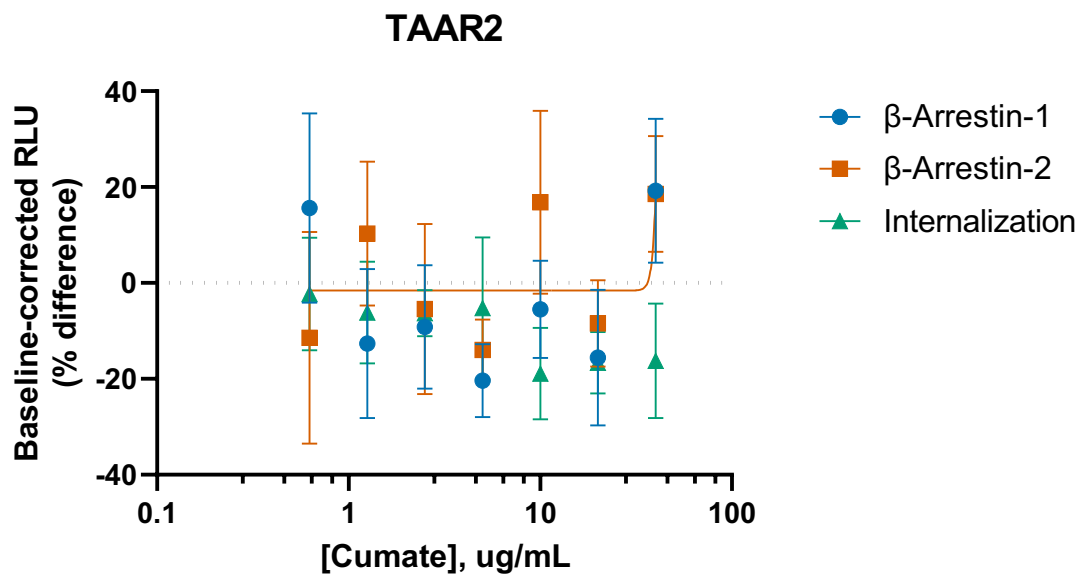


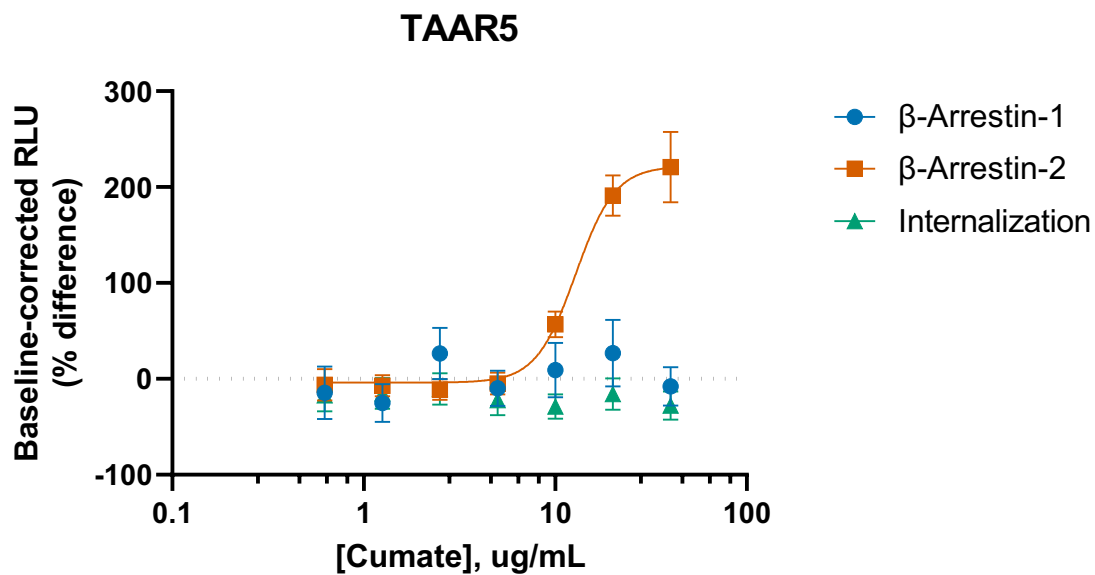


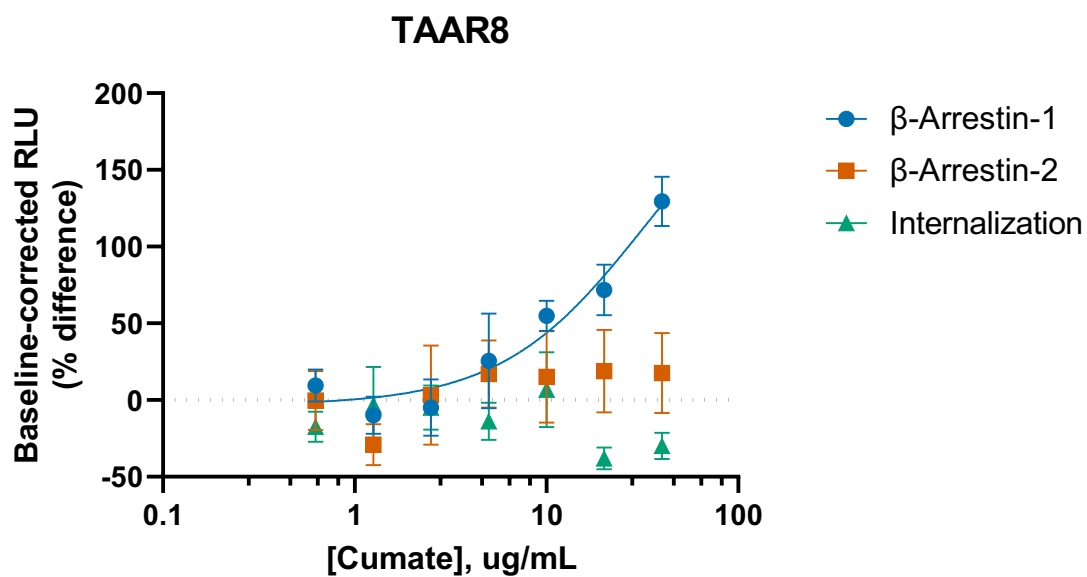


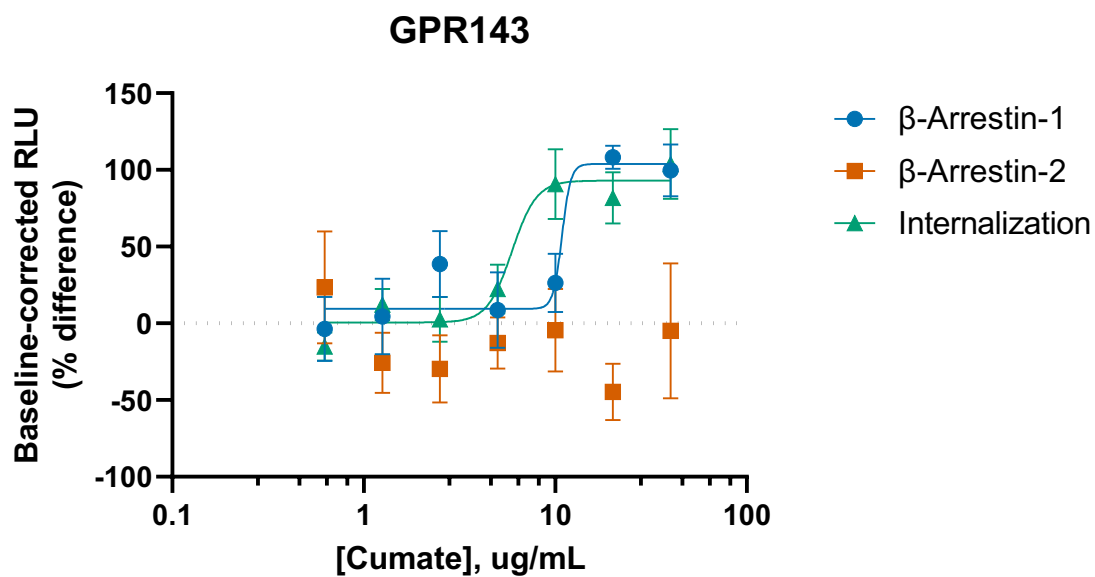
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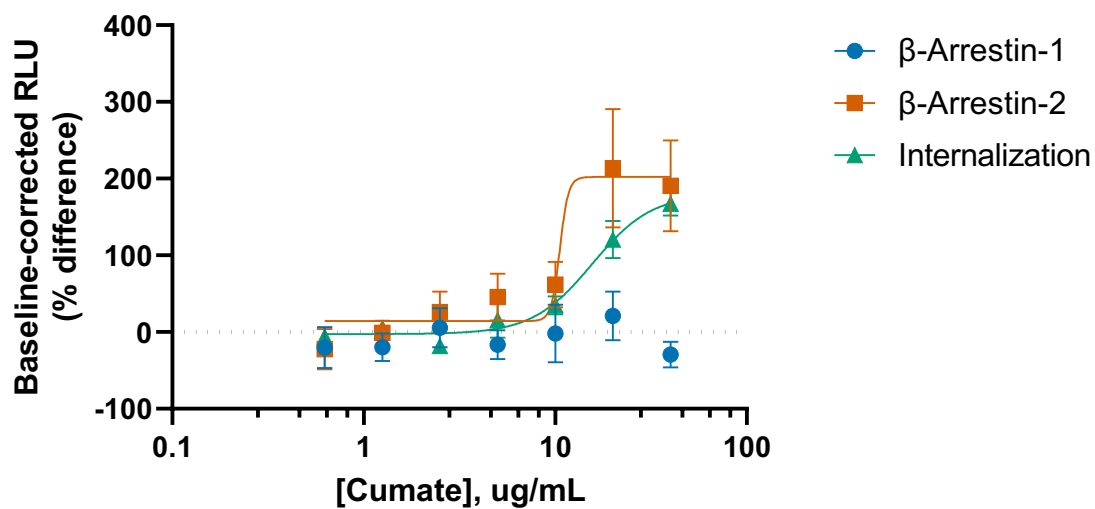




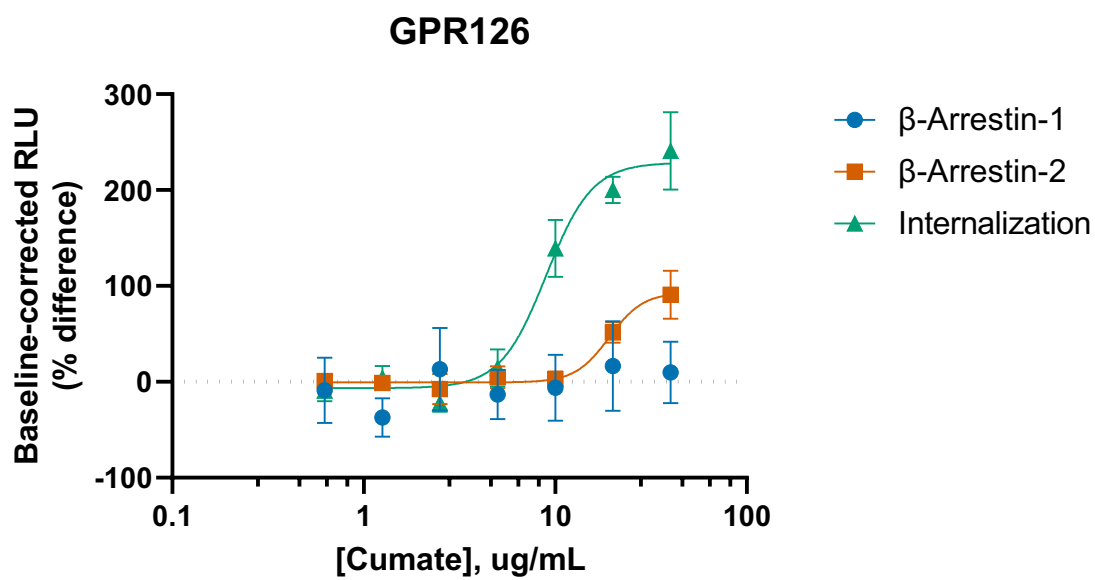




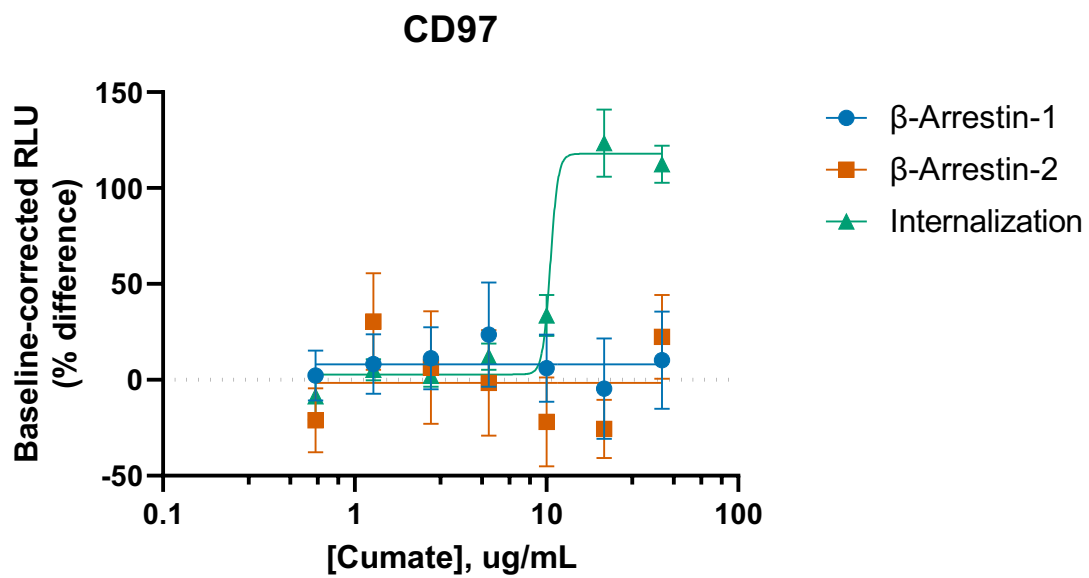
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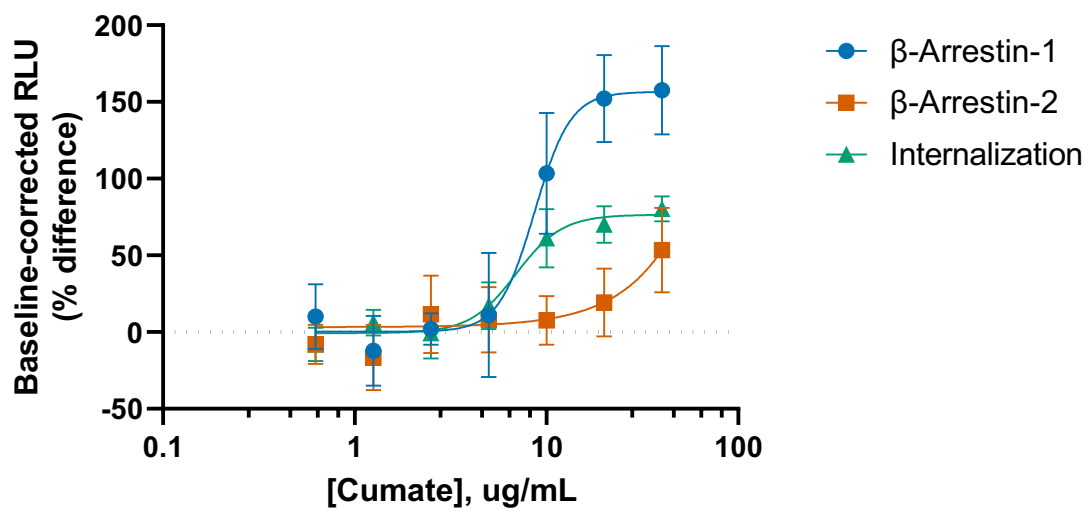
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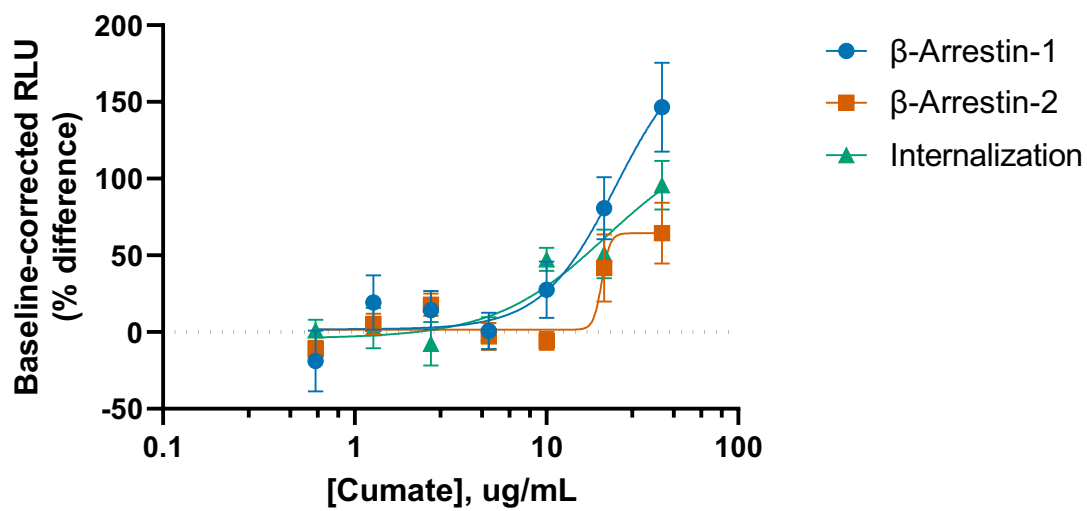
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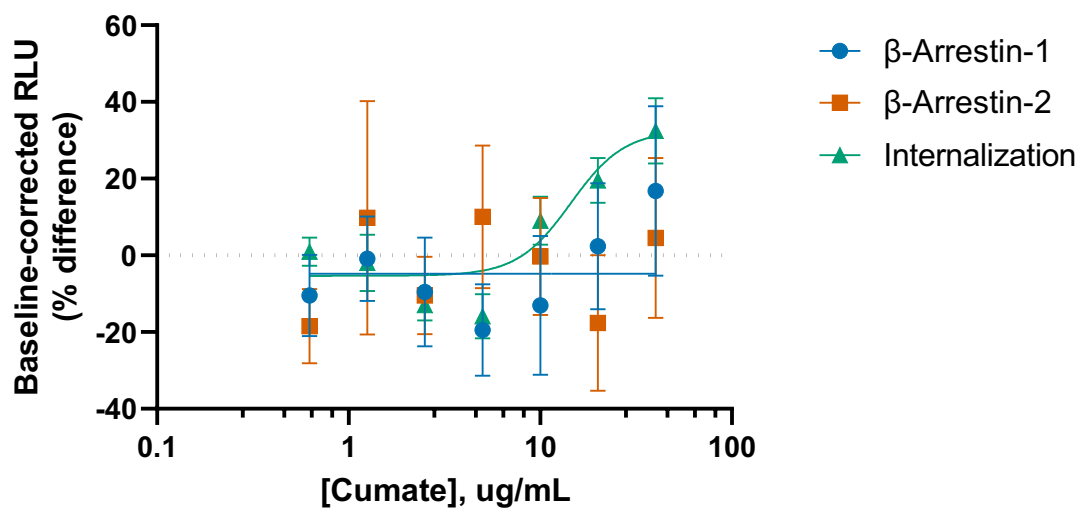
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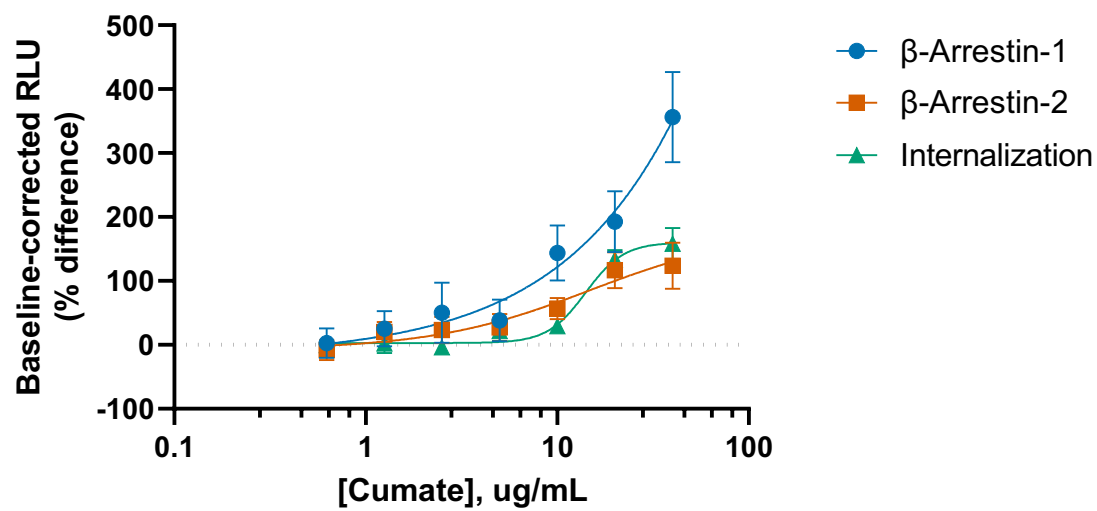
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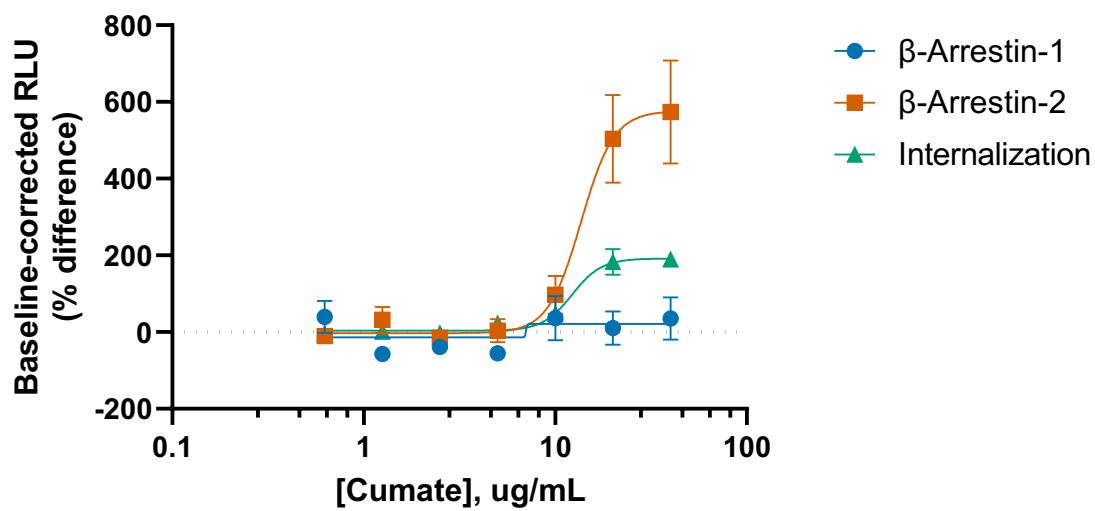
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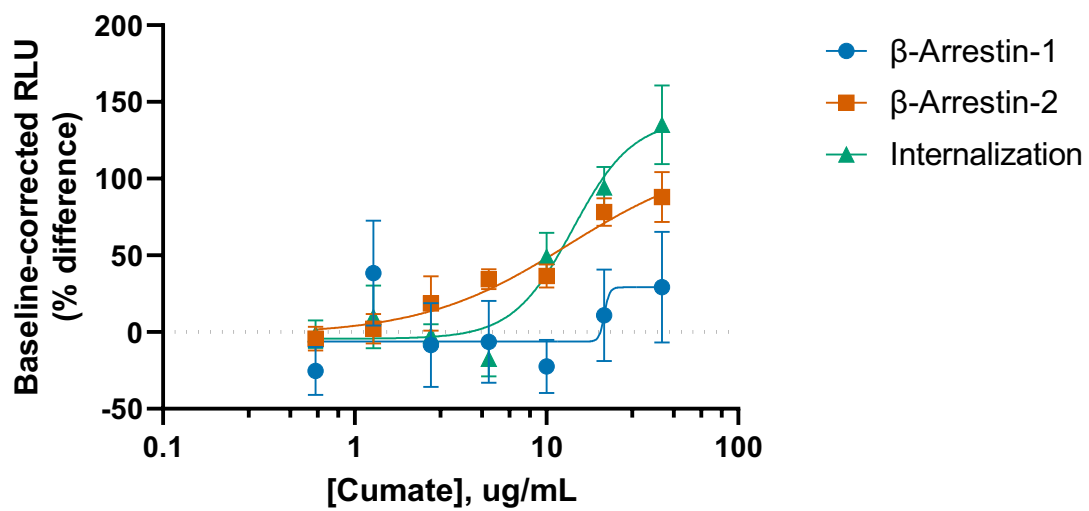
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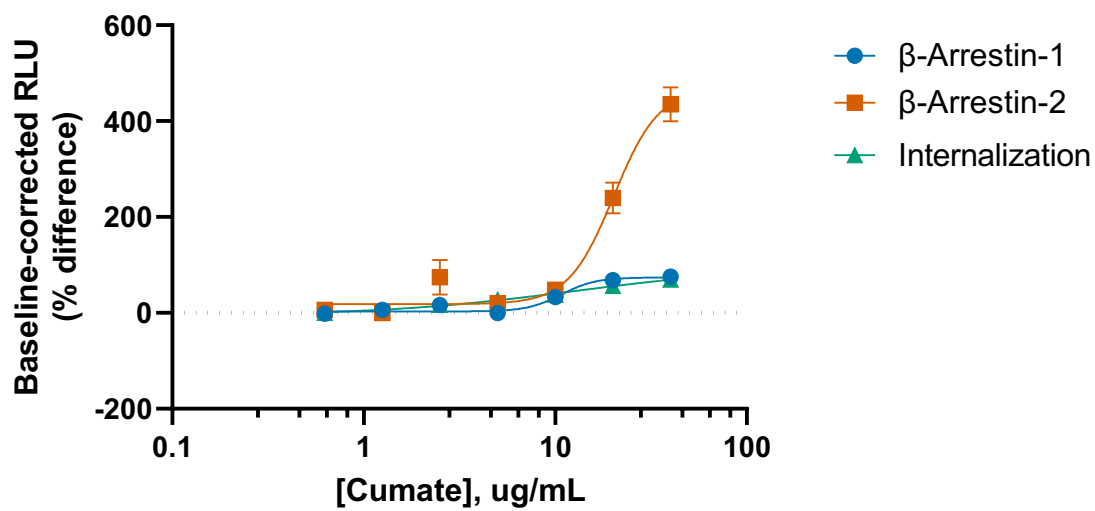
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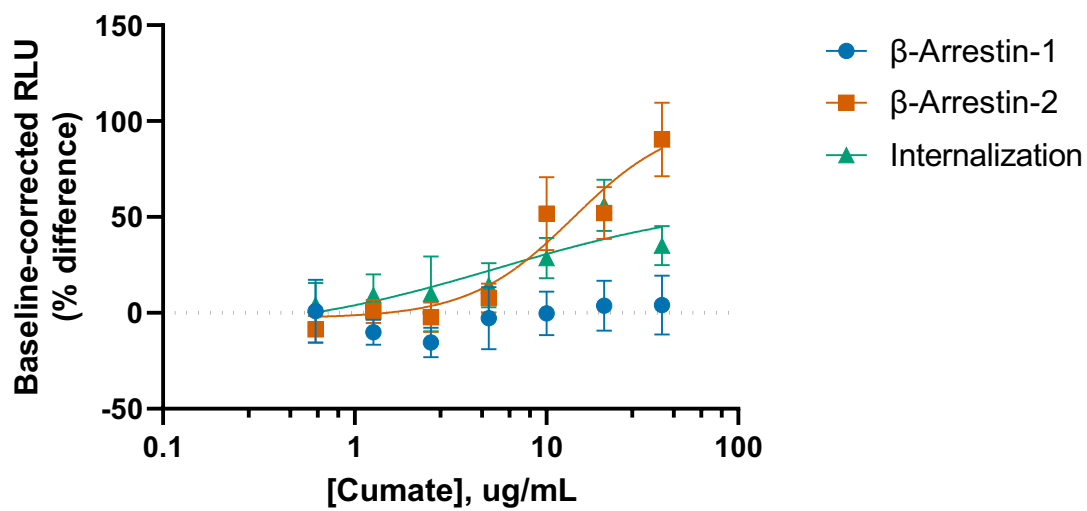
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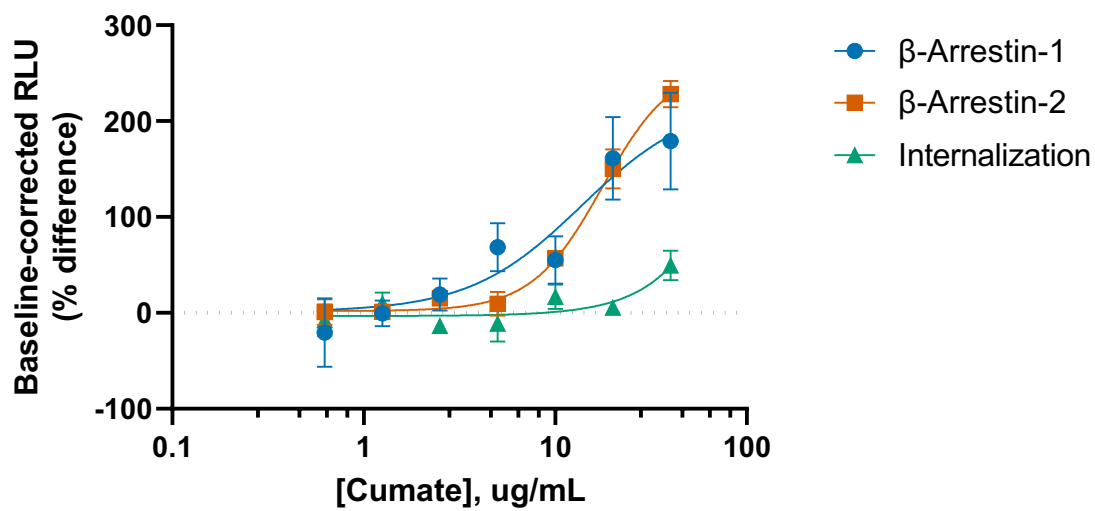
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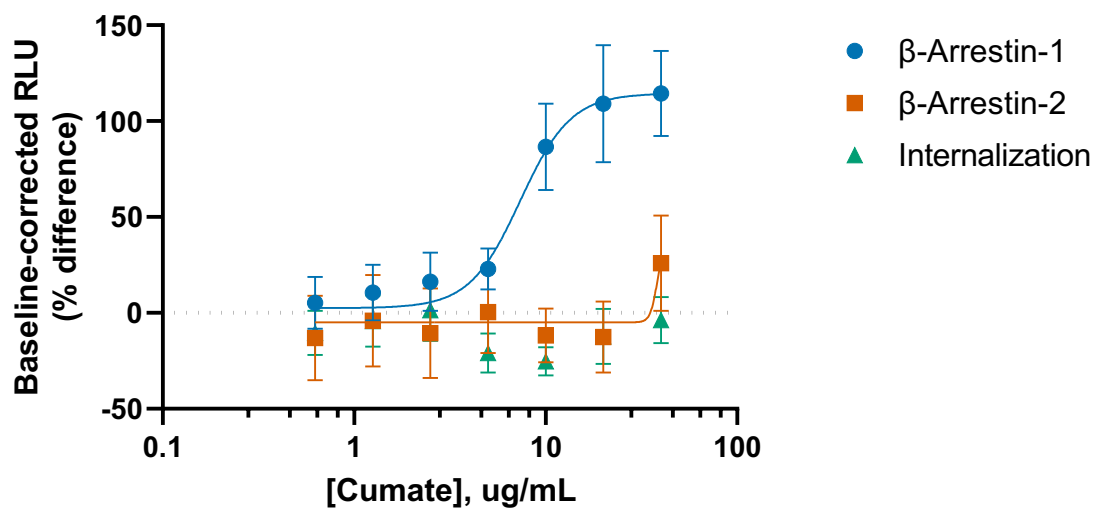
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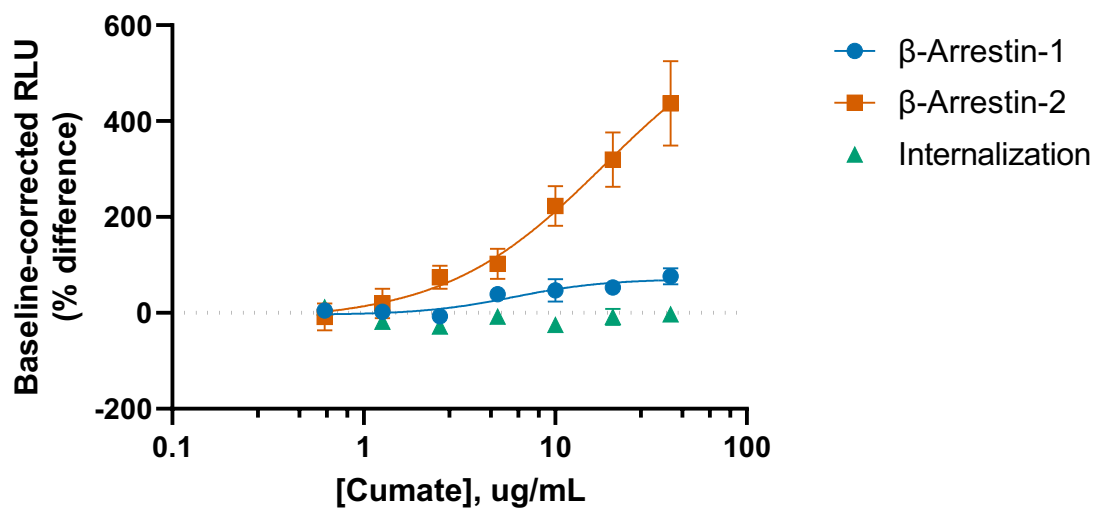
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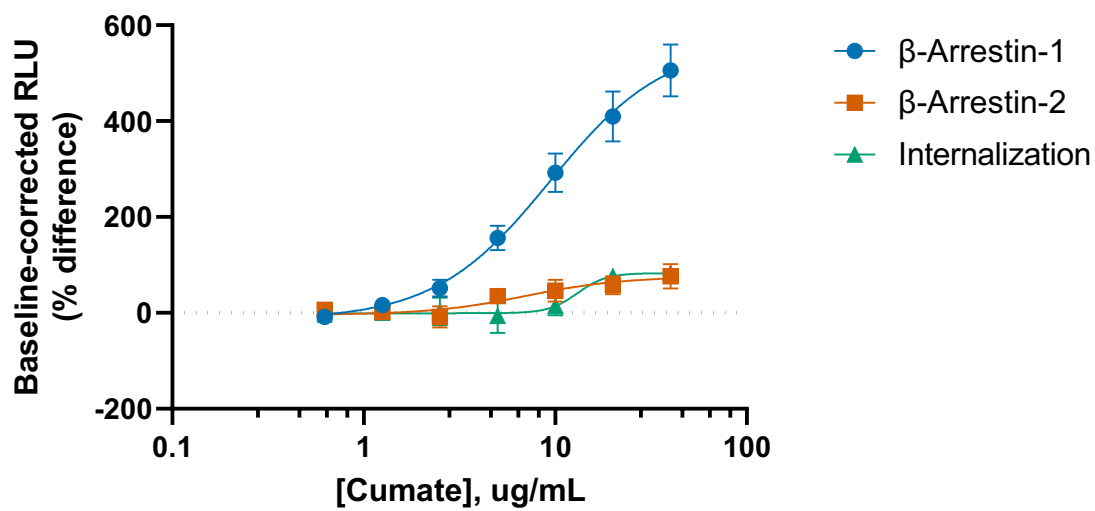
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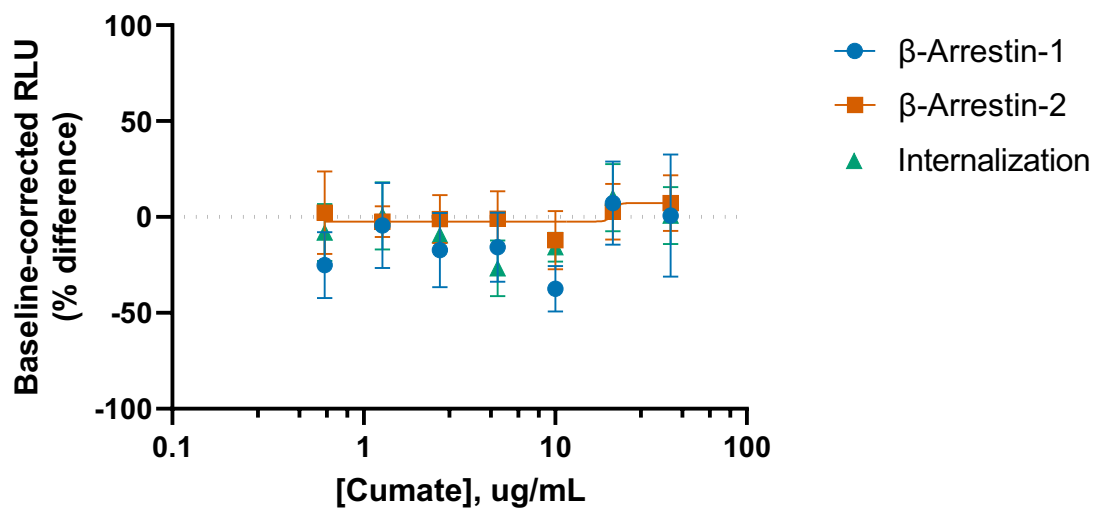
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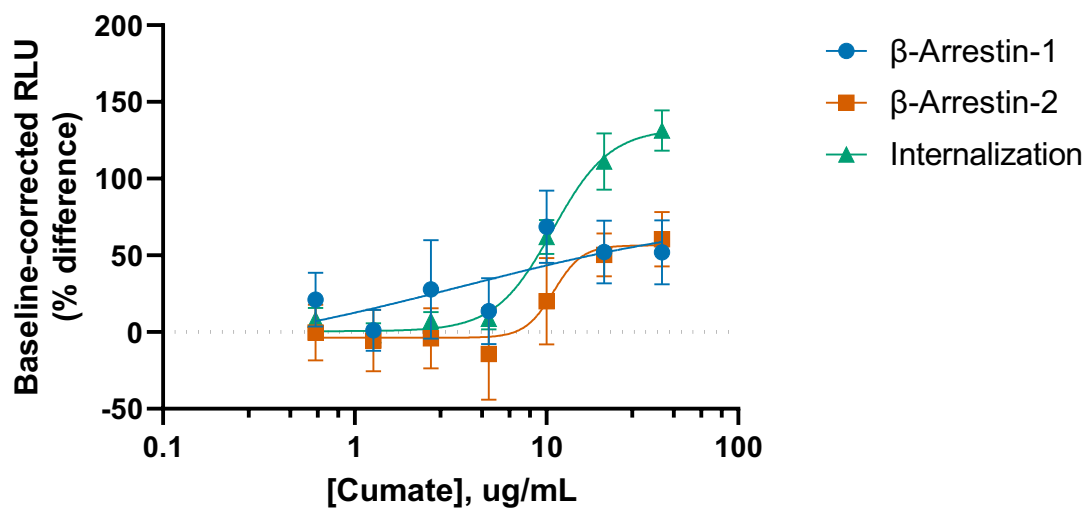
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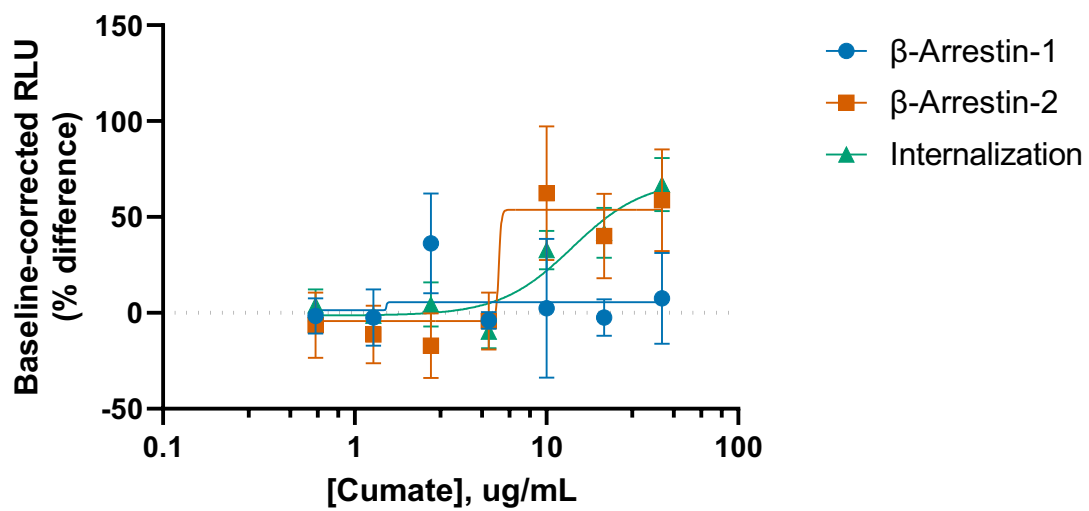
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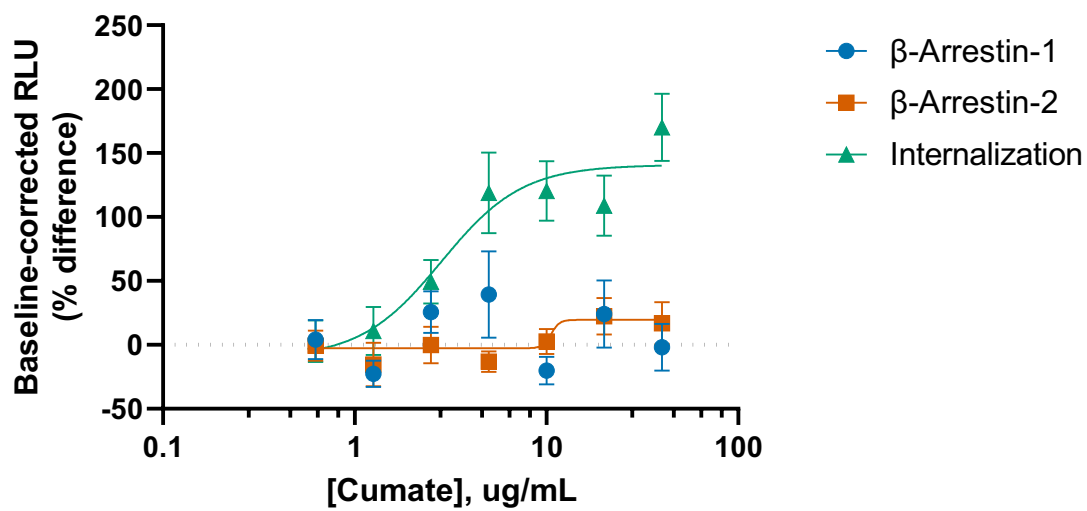
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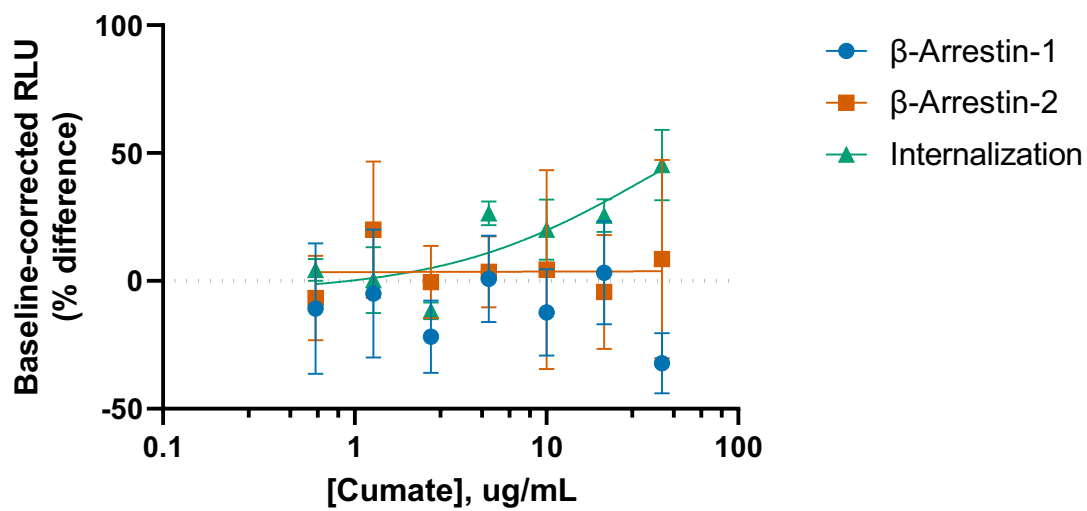
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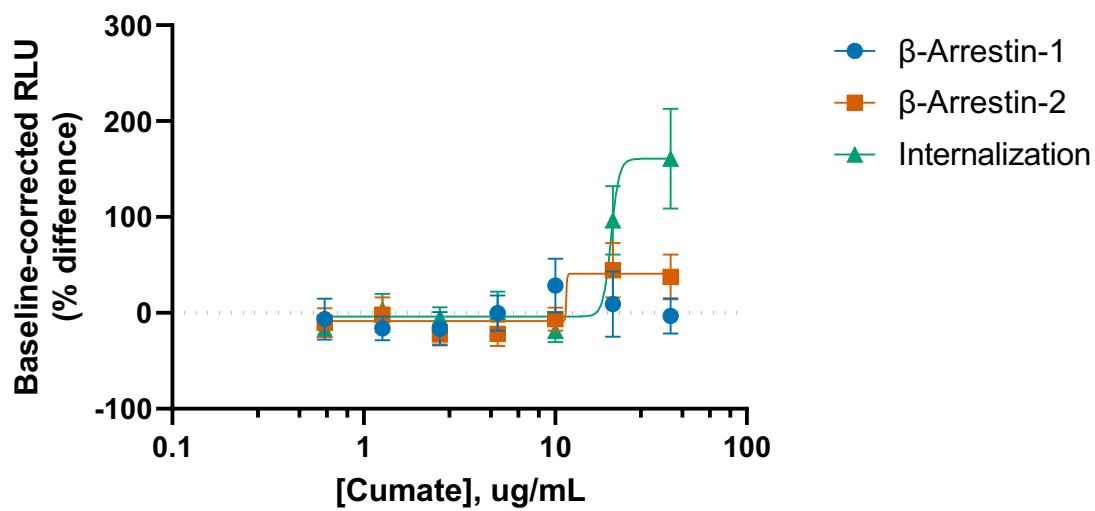
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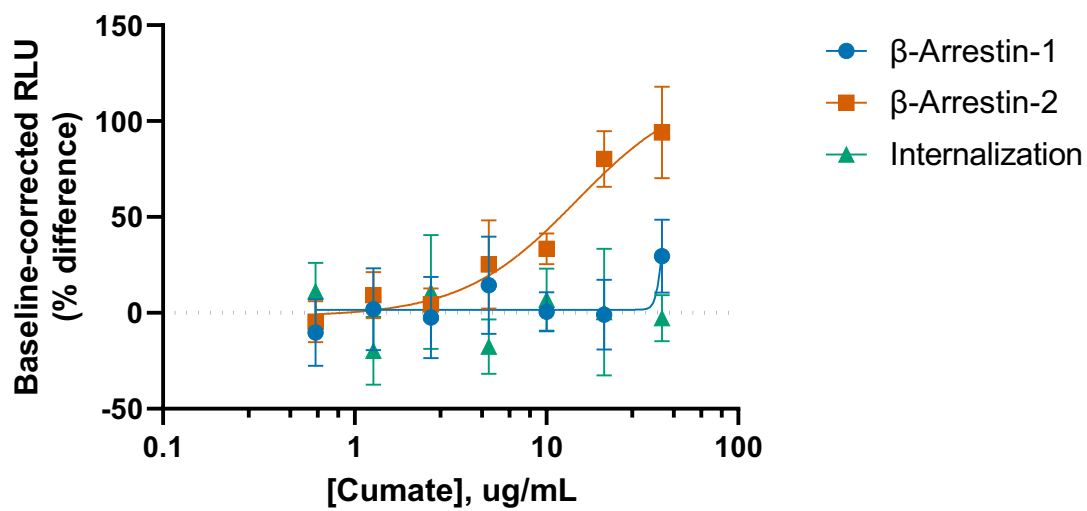
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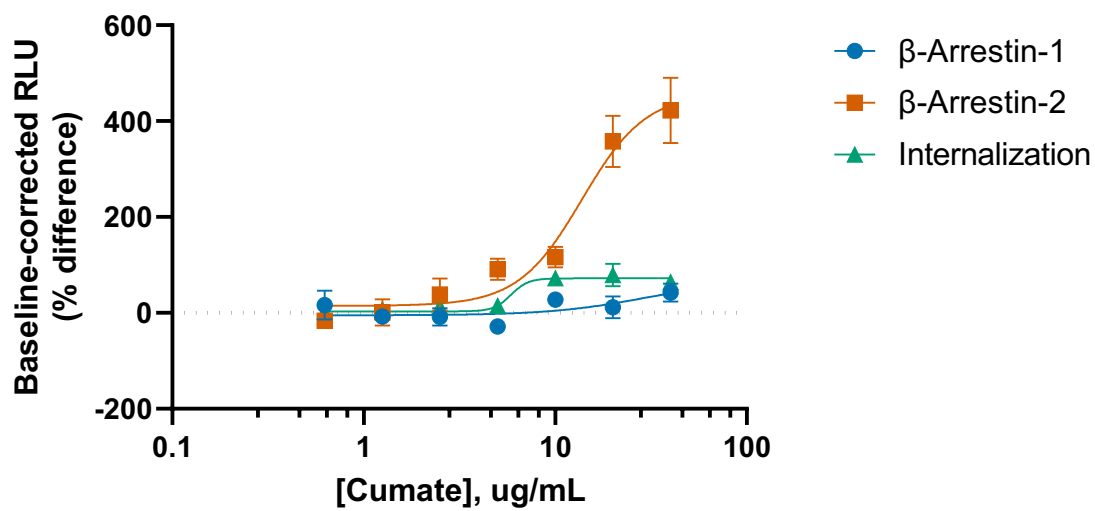
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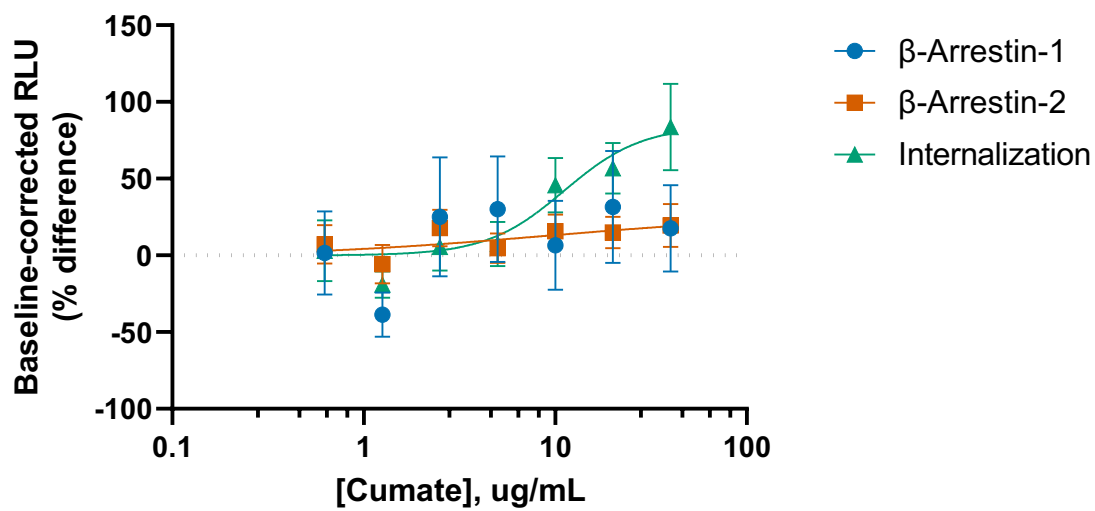
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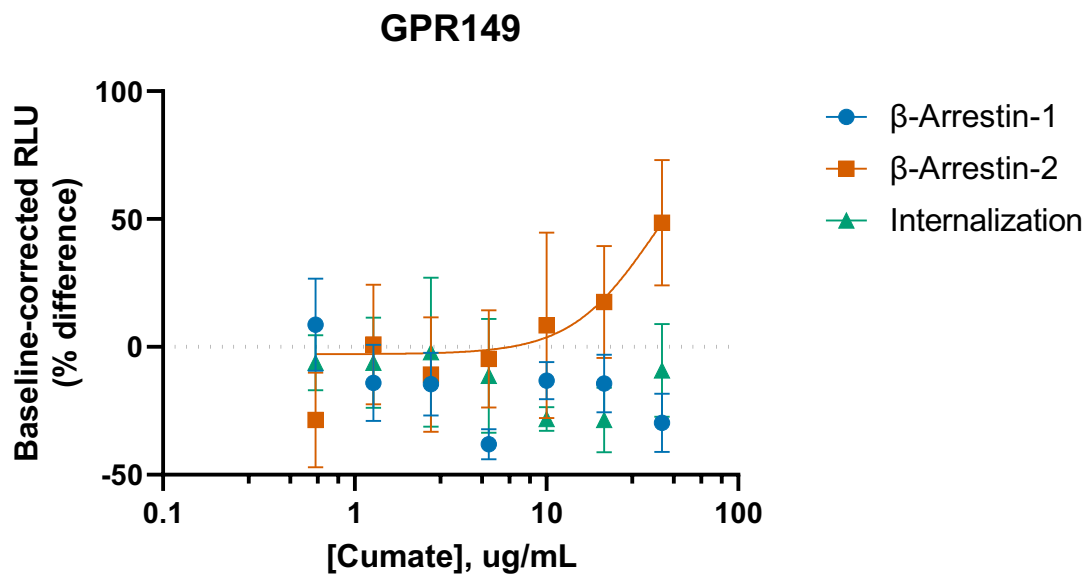
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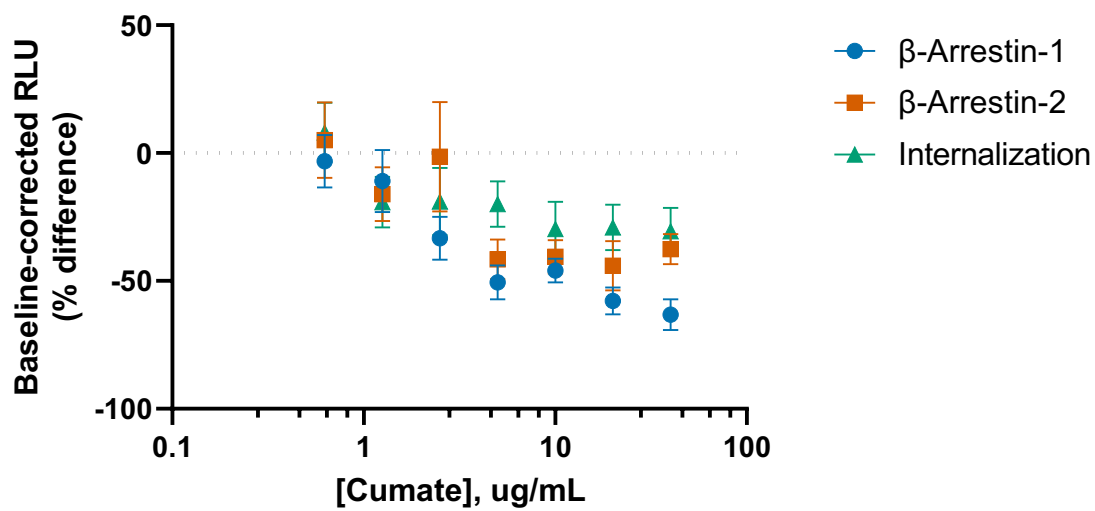
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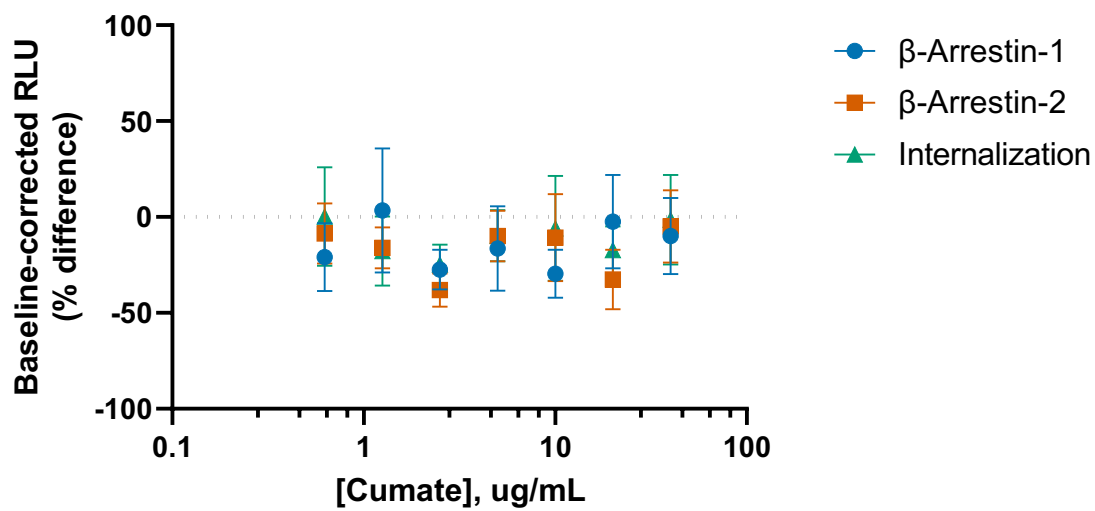
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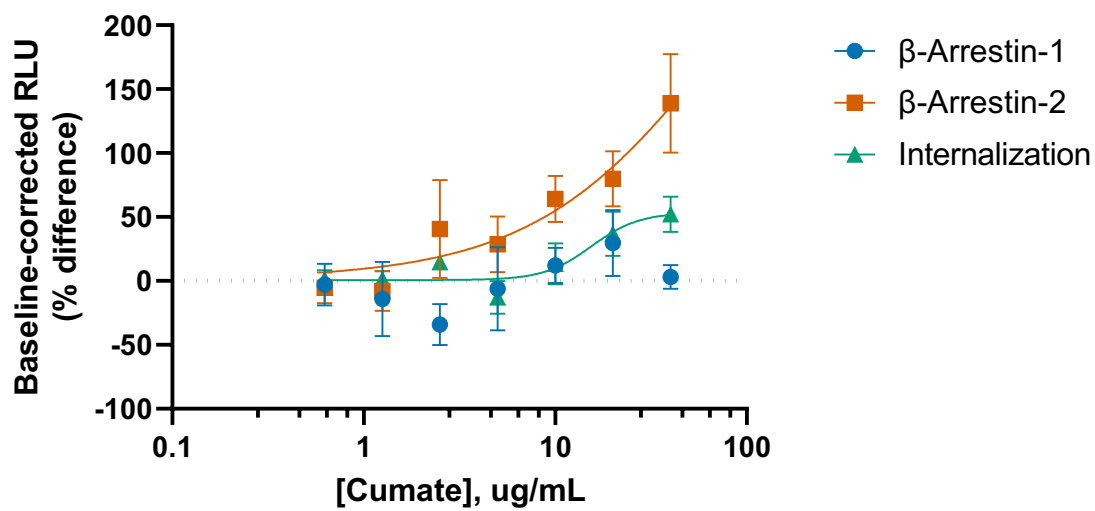
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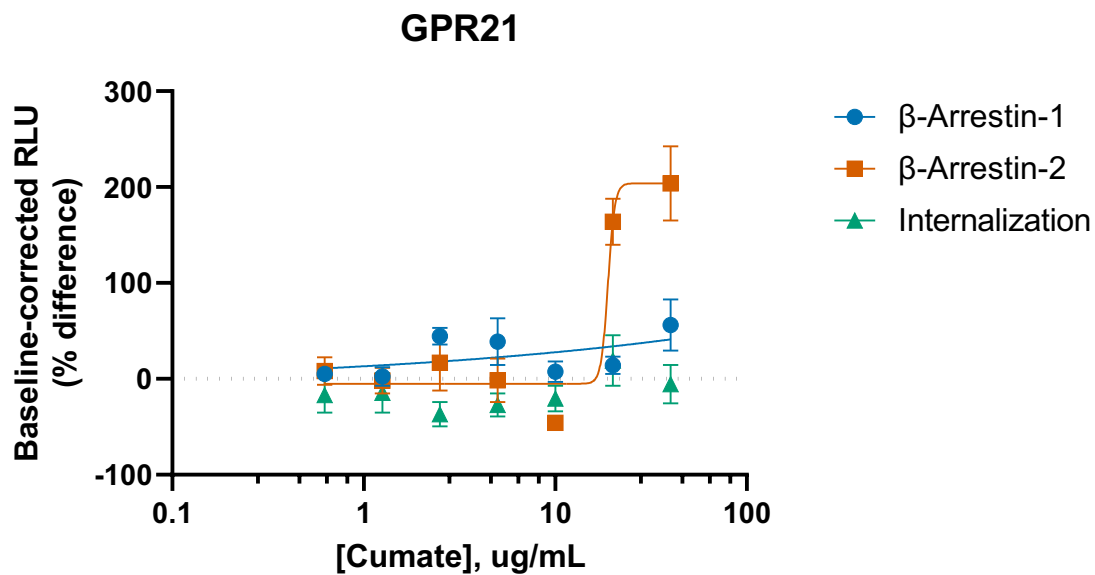


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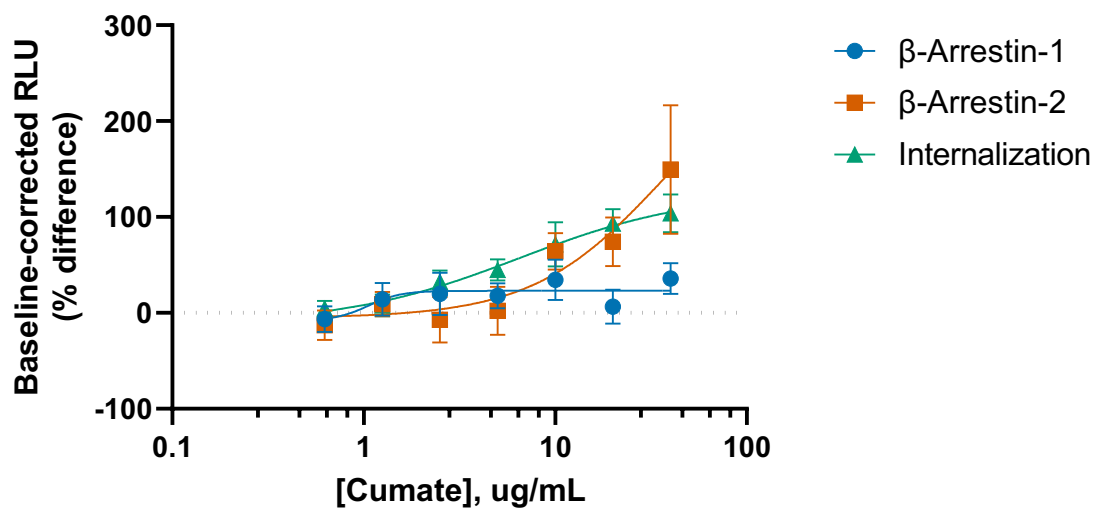


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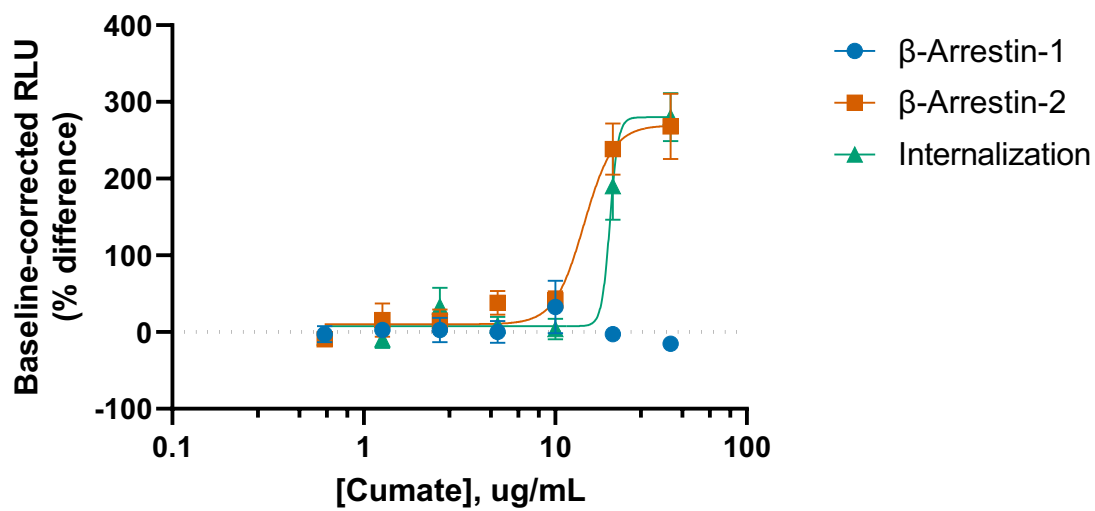




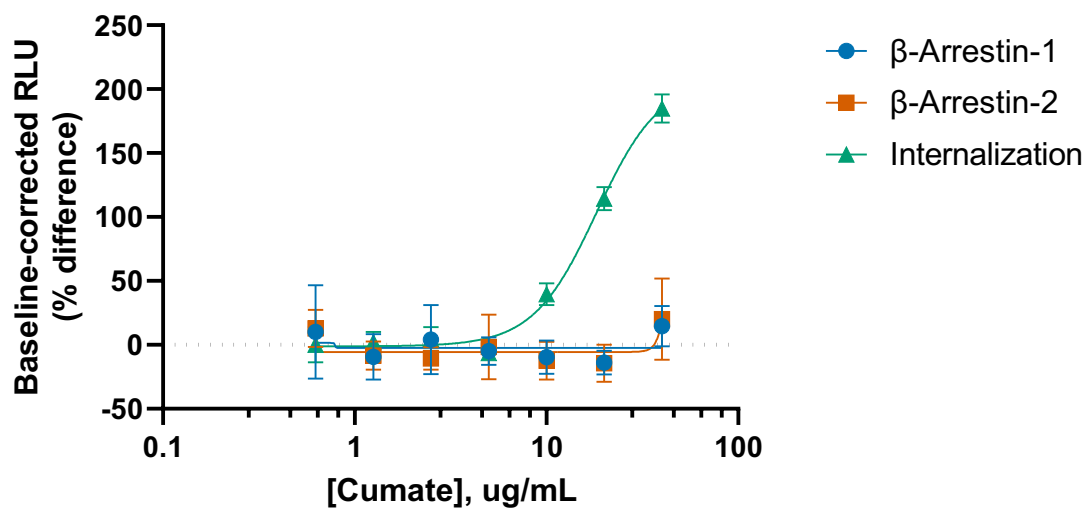
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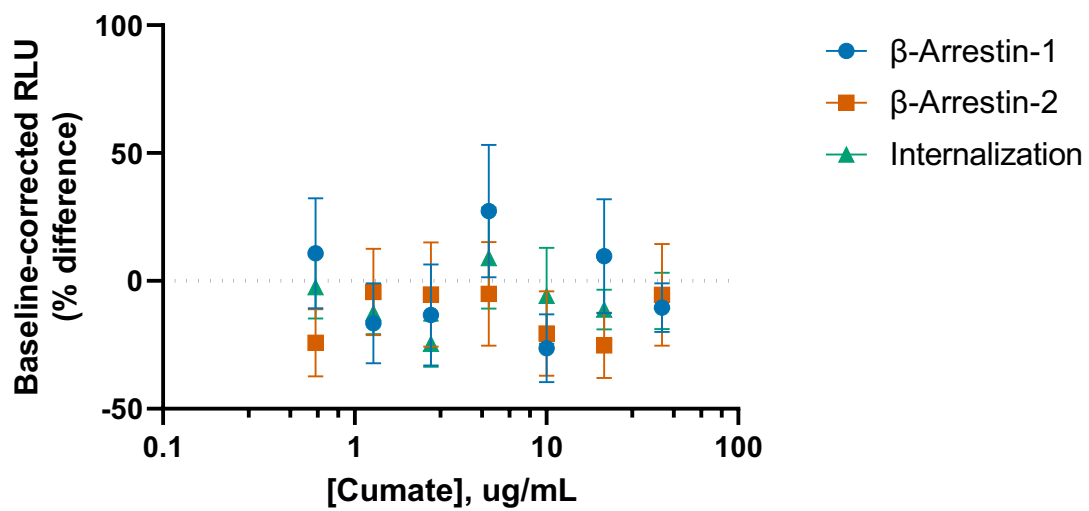
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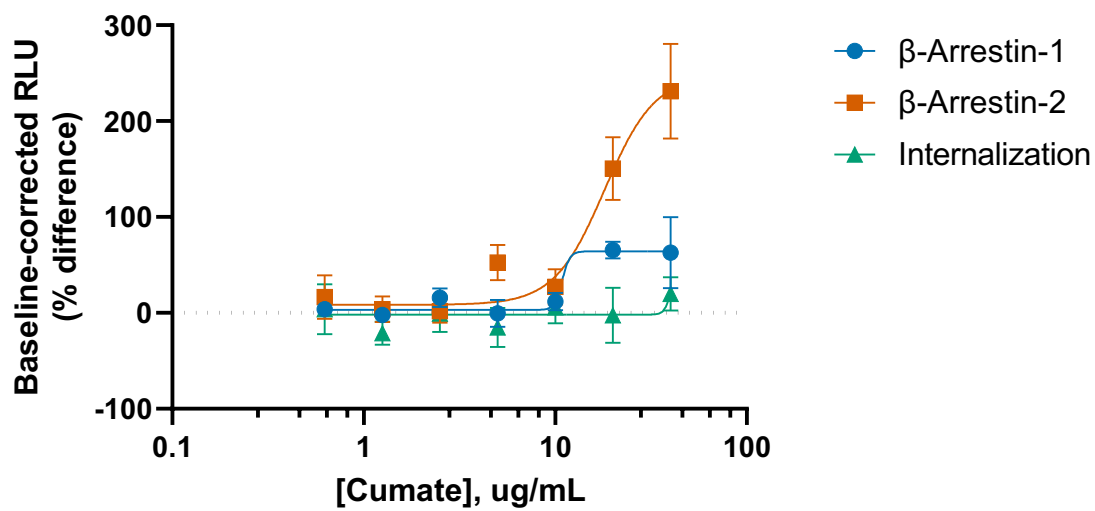
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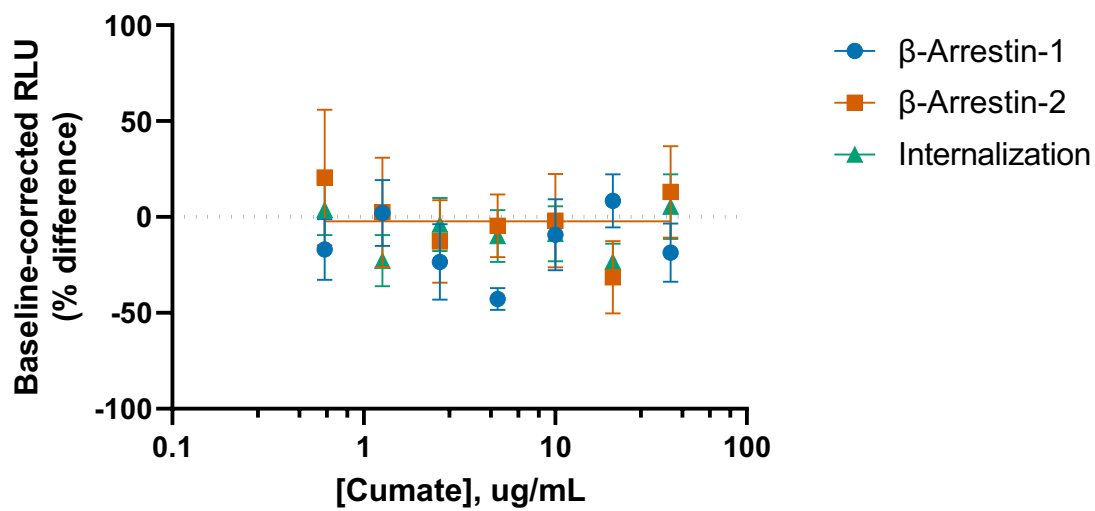
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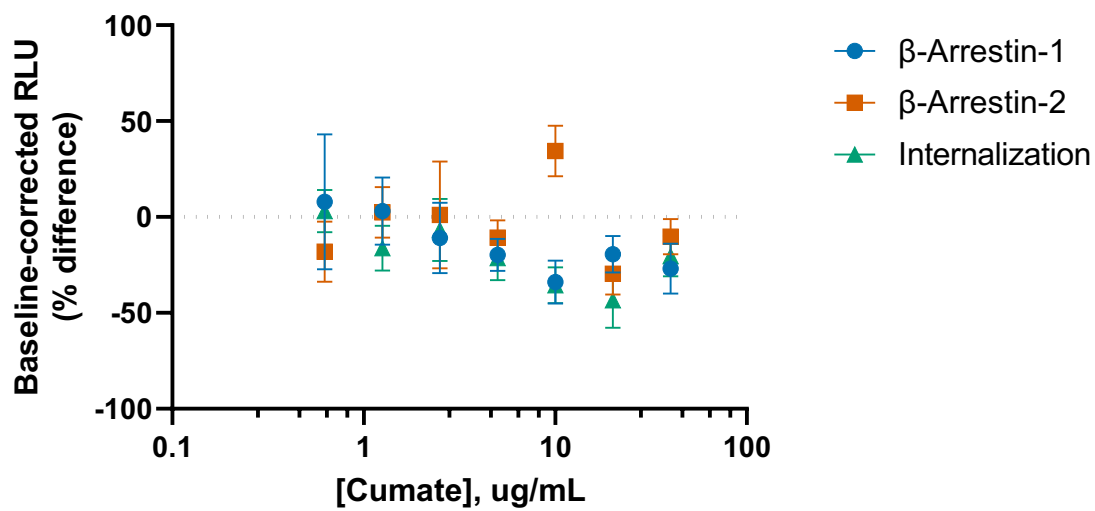
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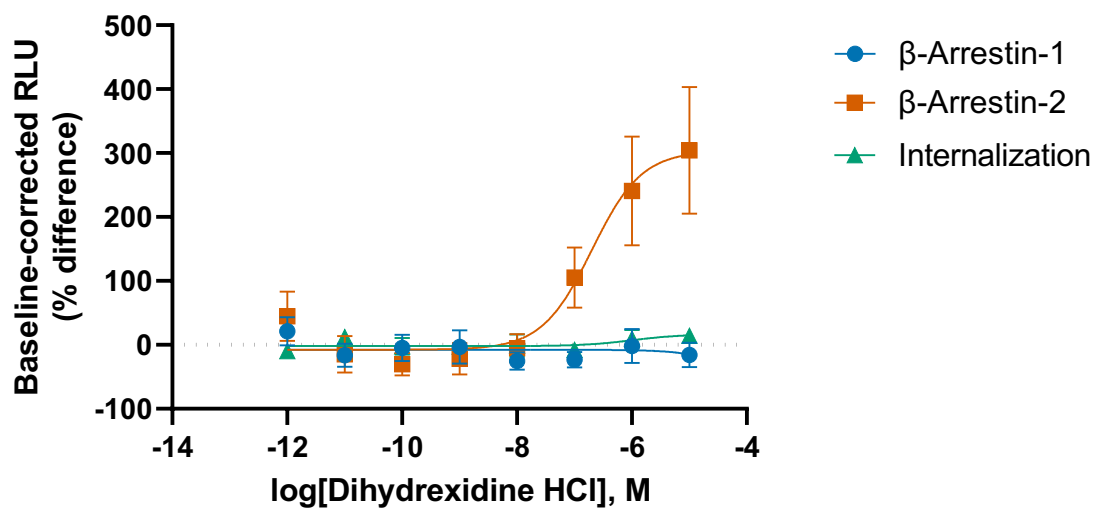
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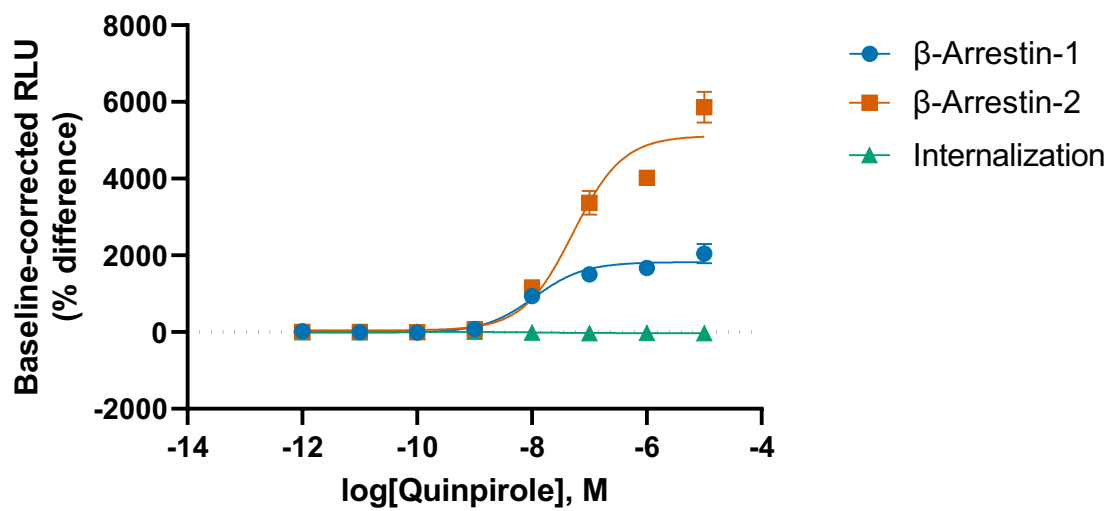
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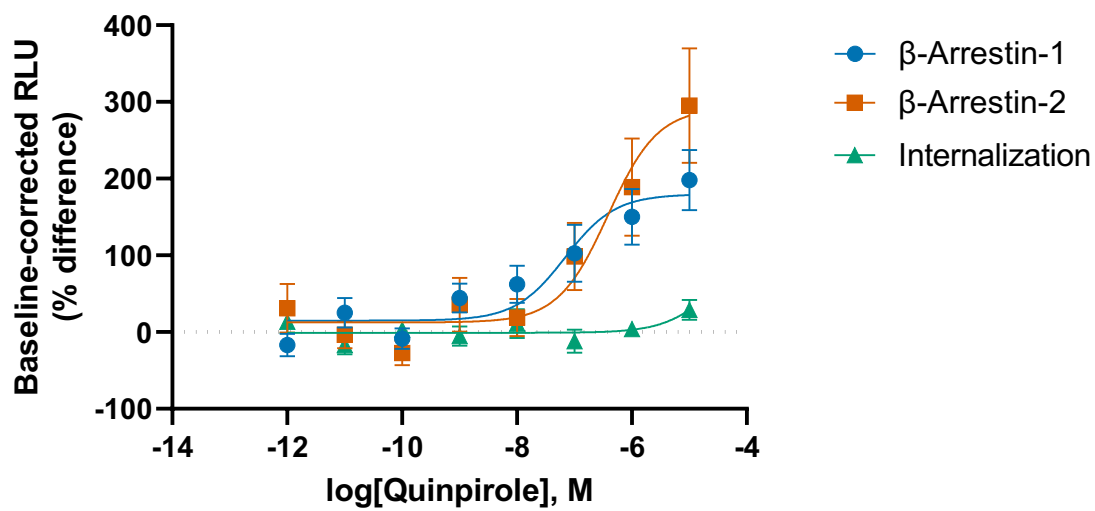
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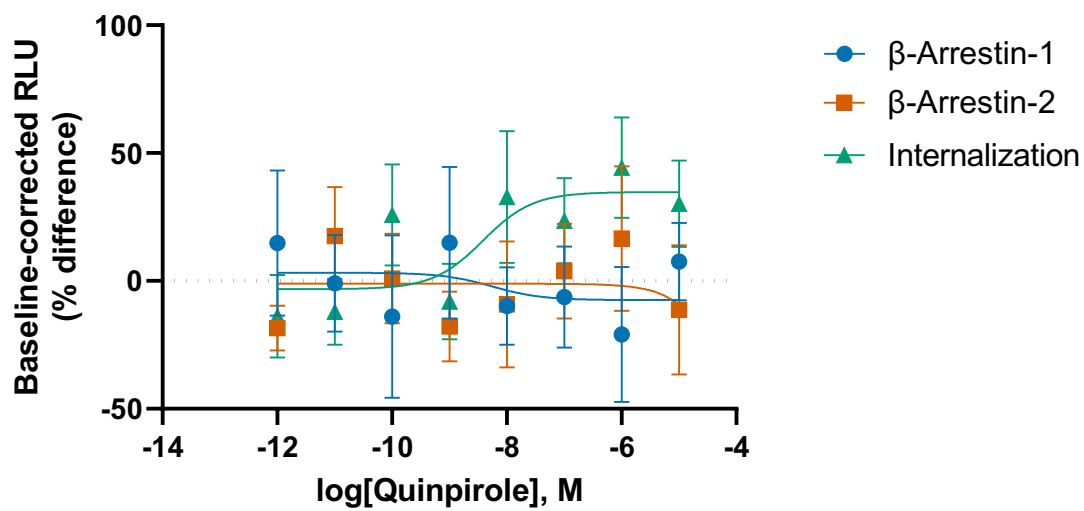
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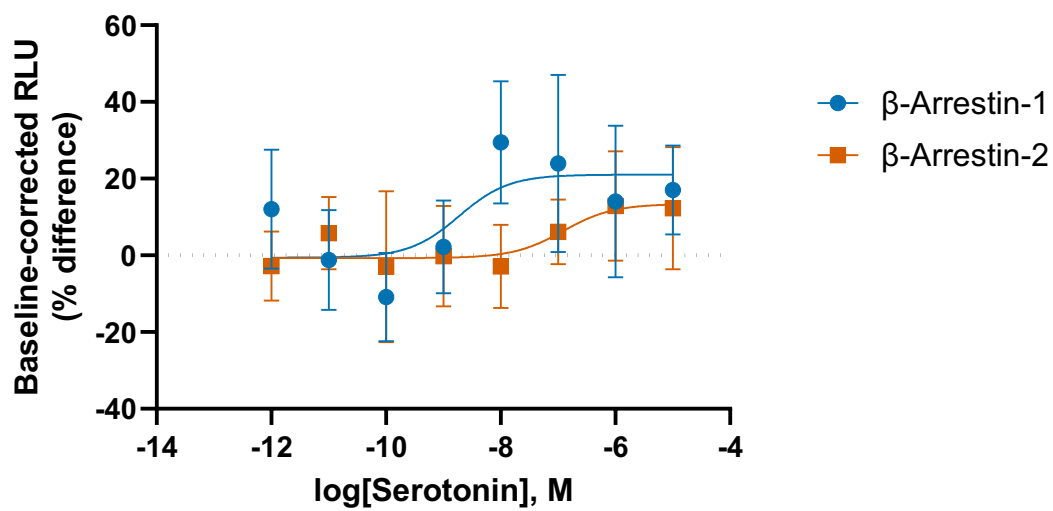
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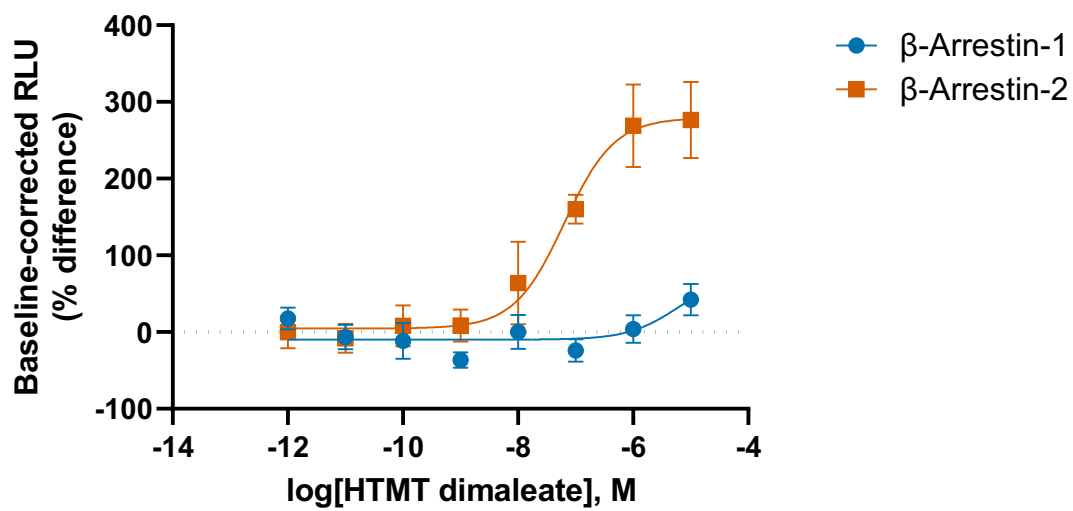
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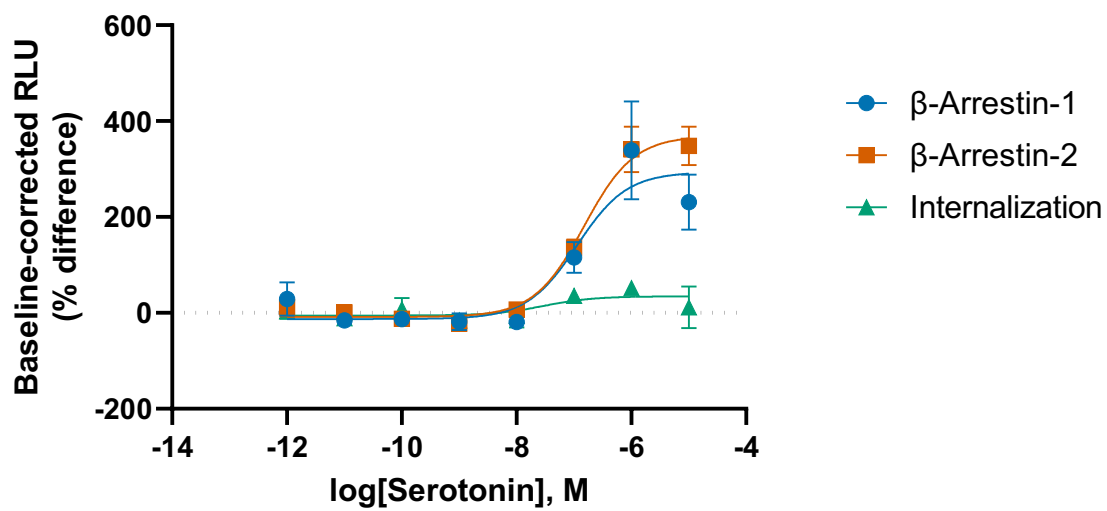
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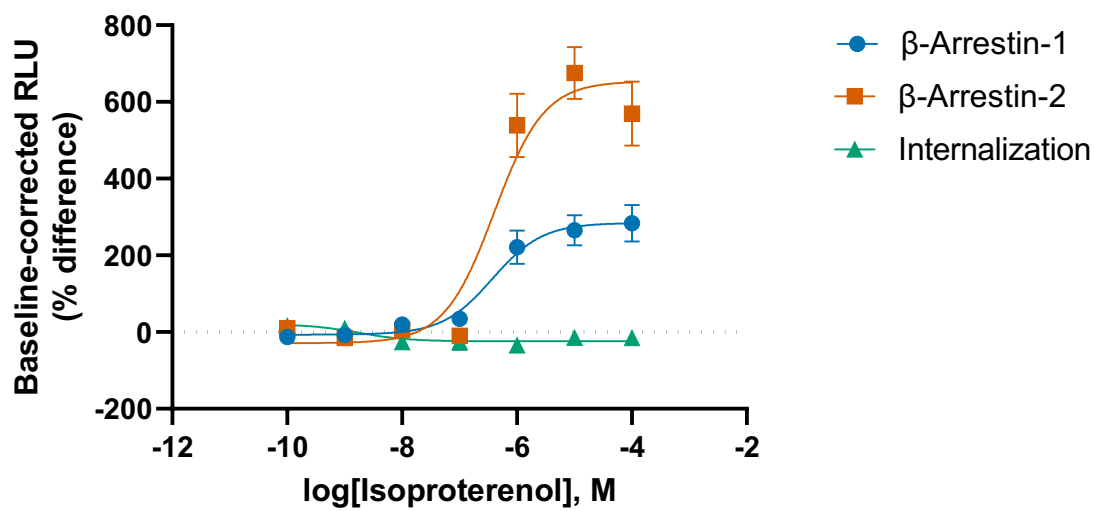
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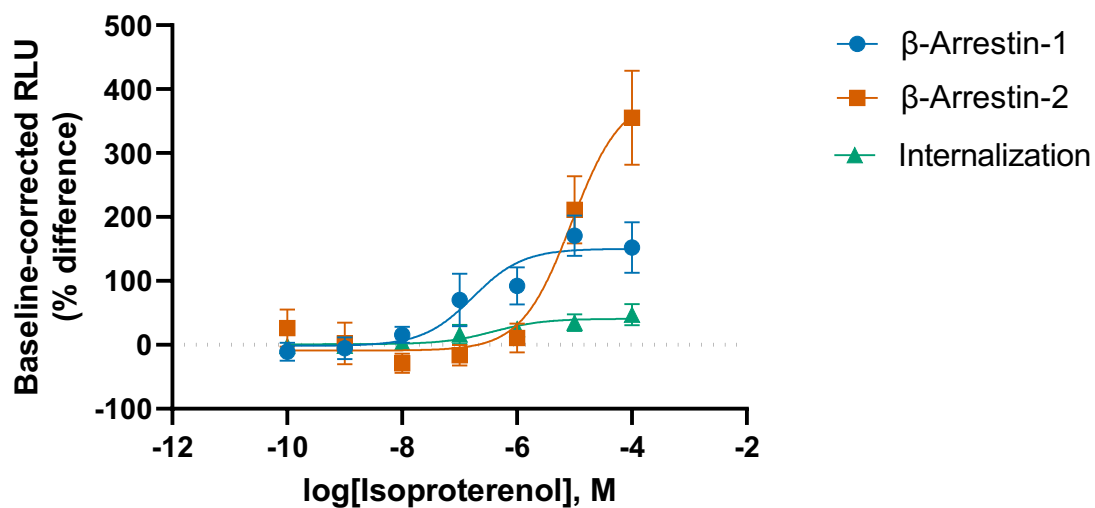
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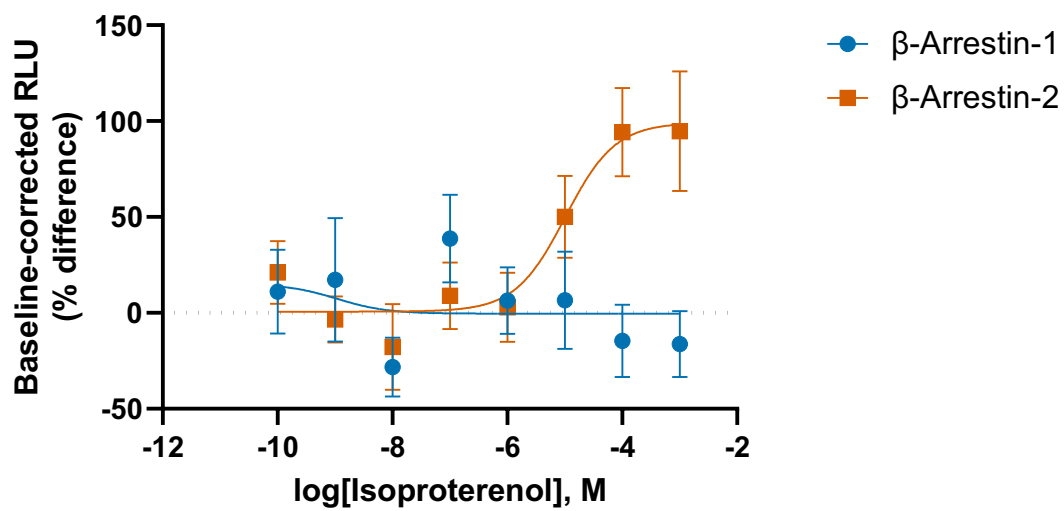
ADRB1



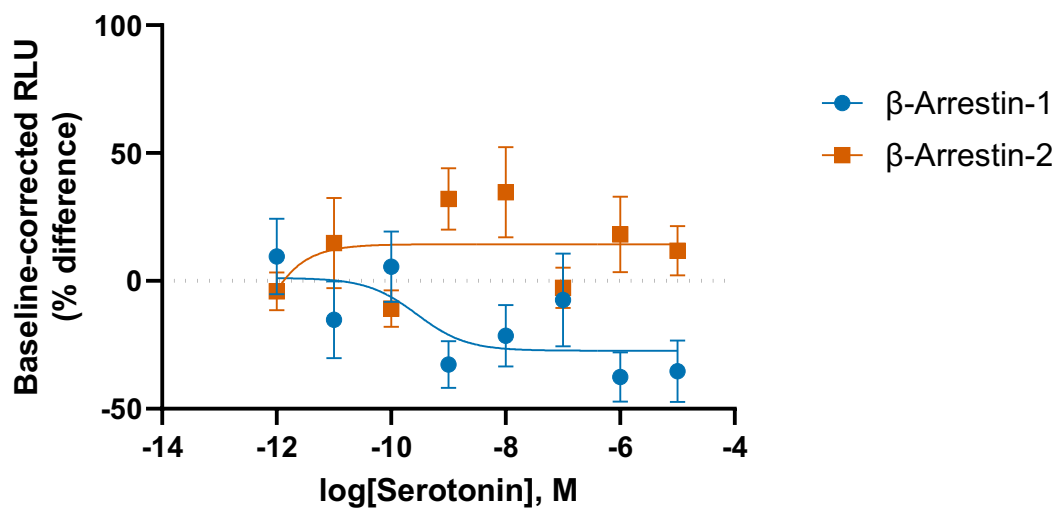
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ADRB3

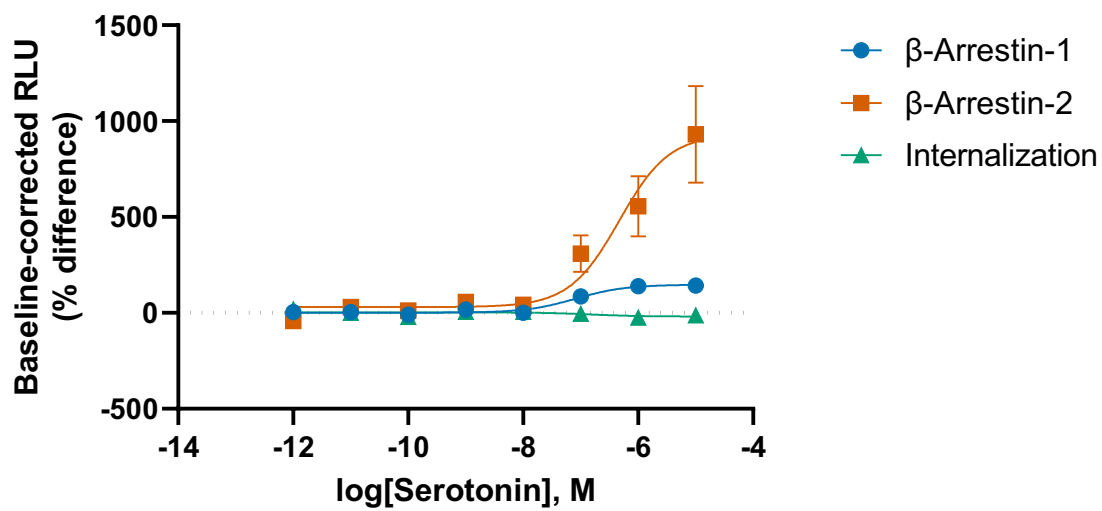


5-HT7

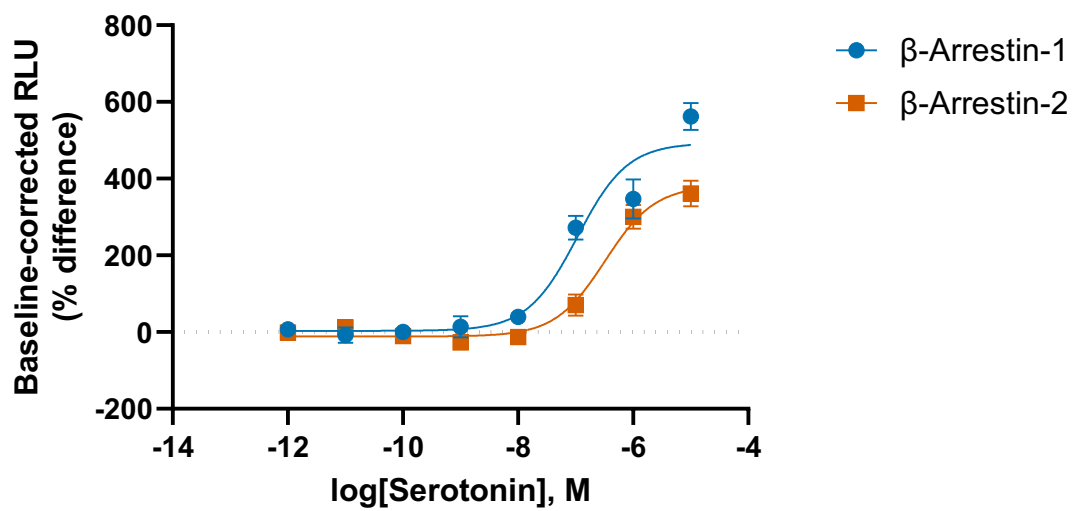


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5-HT₅

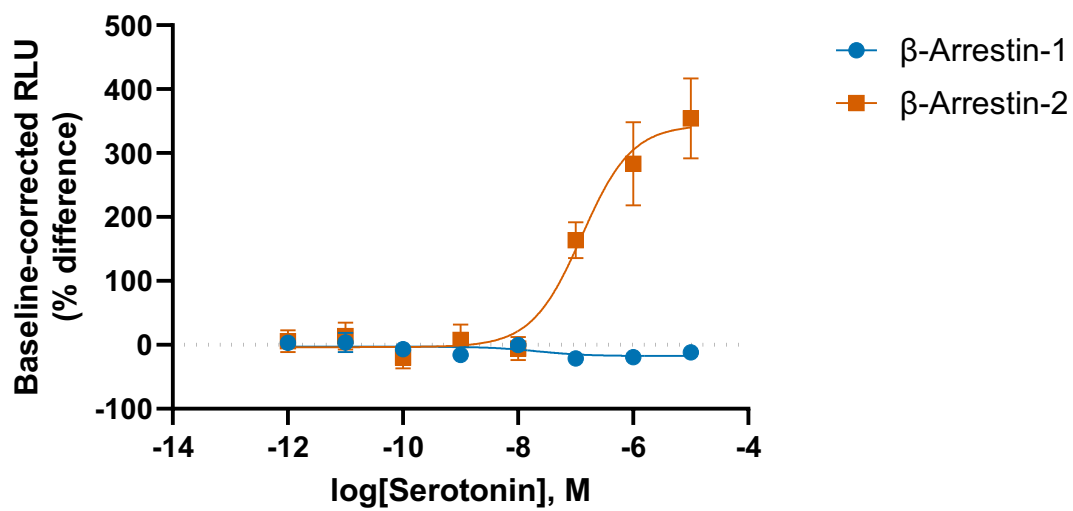


5-HT_{1B}

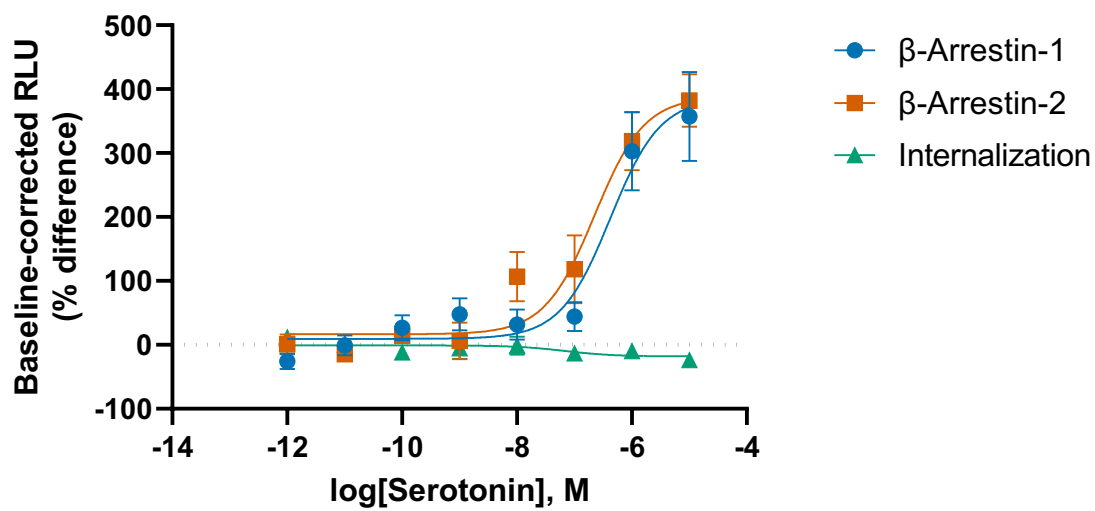


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5-HT_{1D}

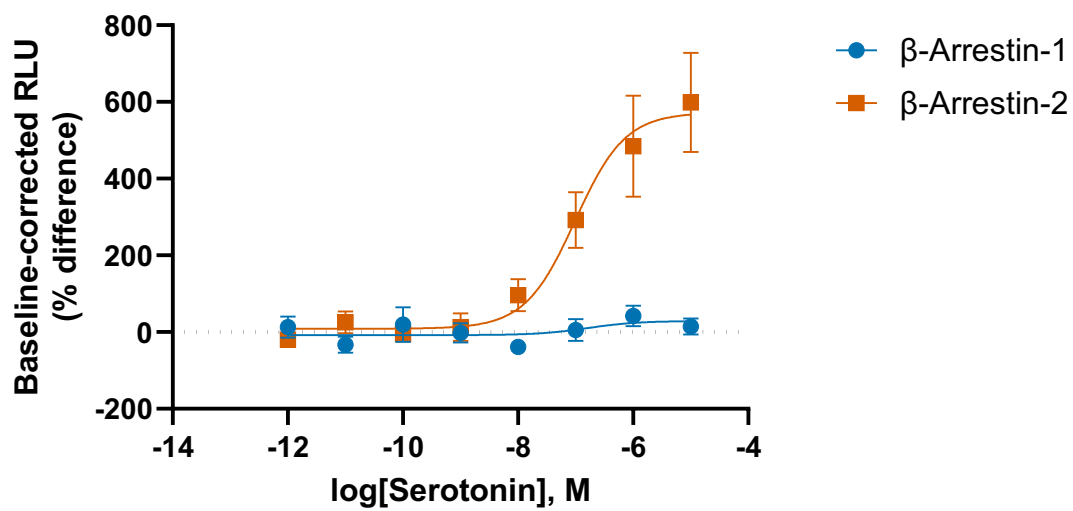


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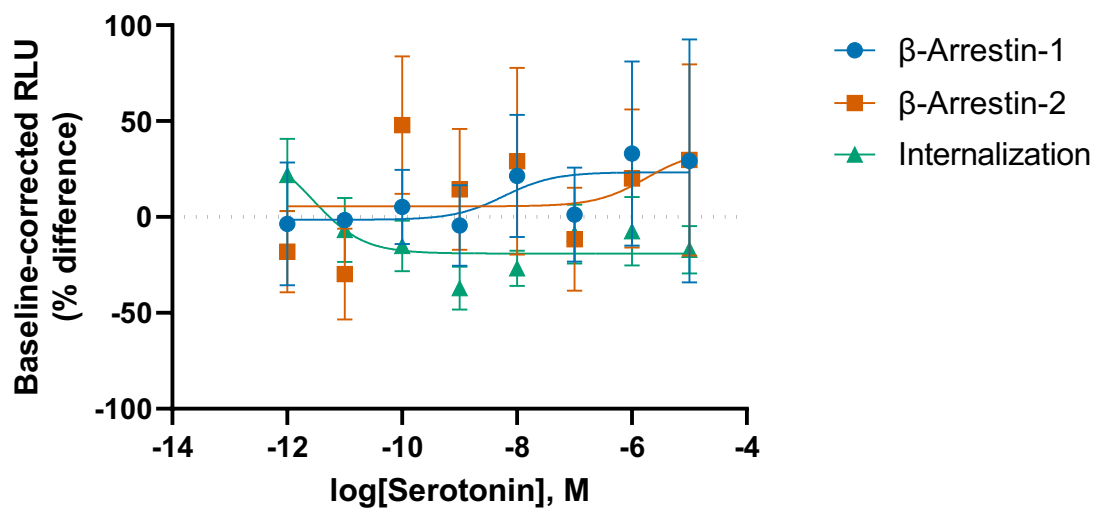


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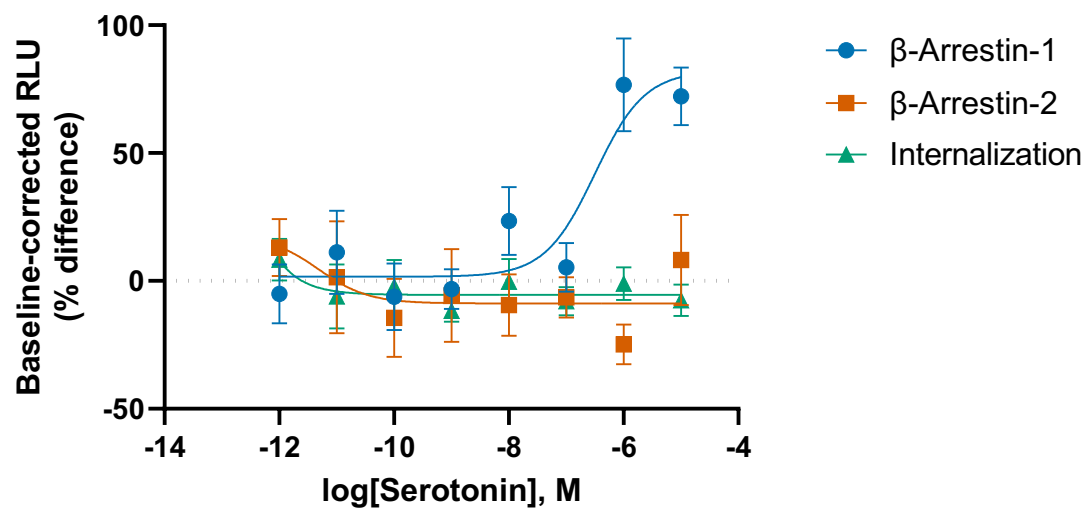
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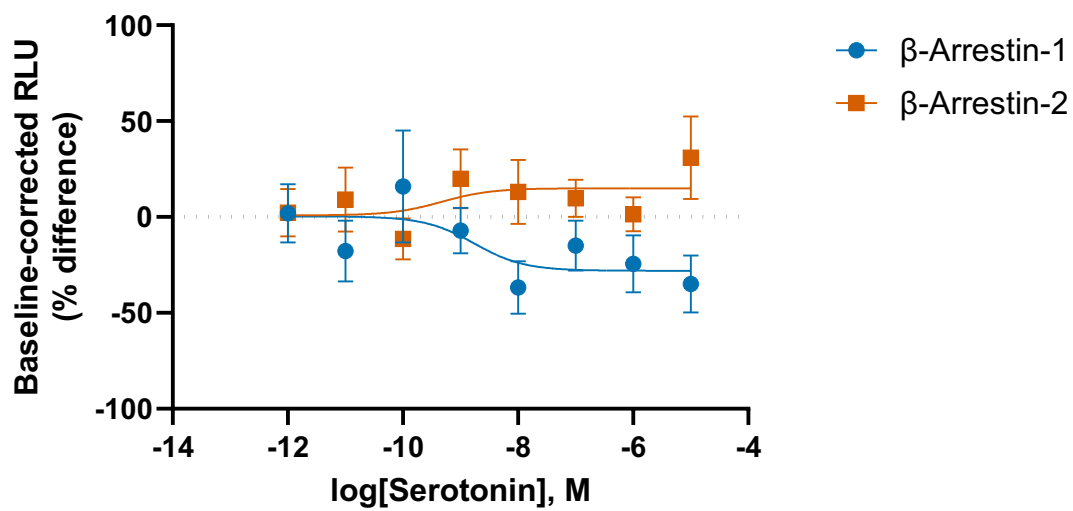
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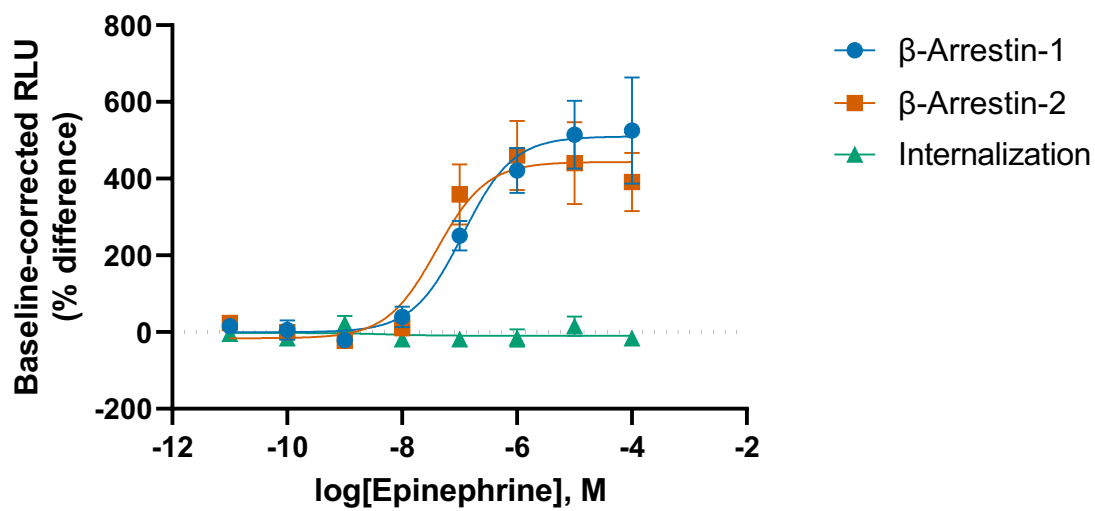
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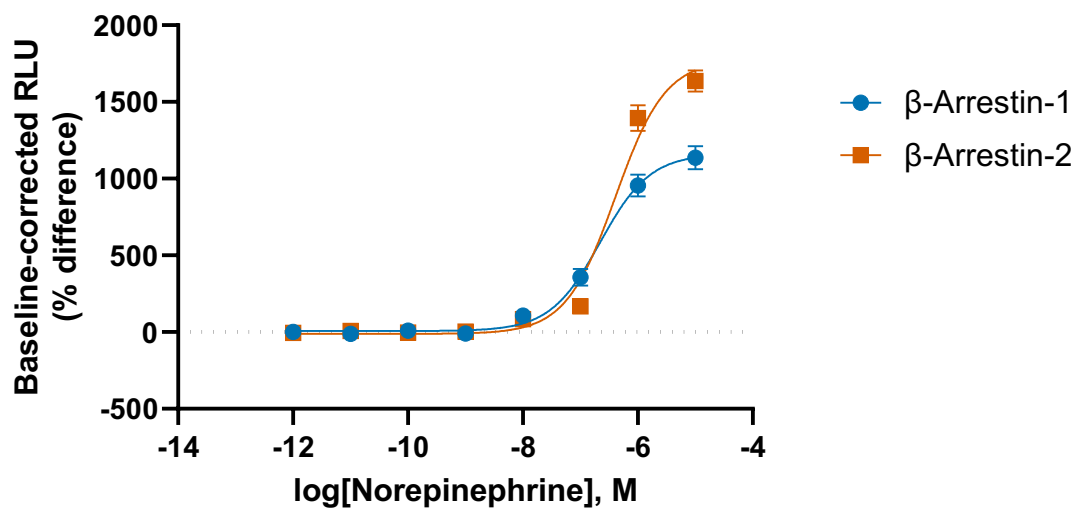
5-HT_{2C}



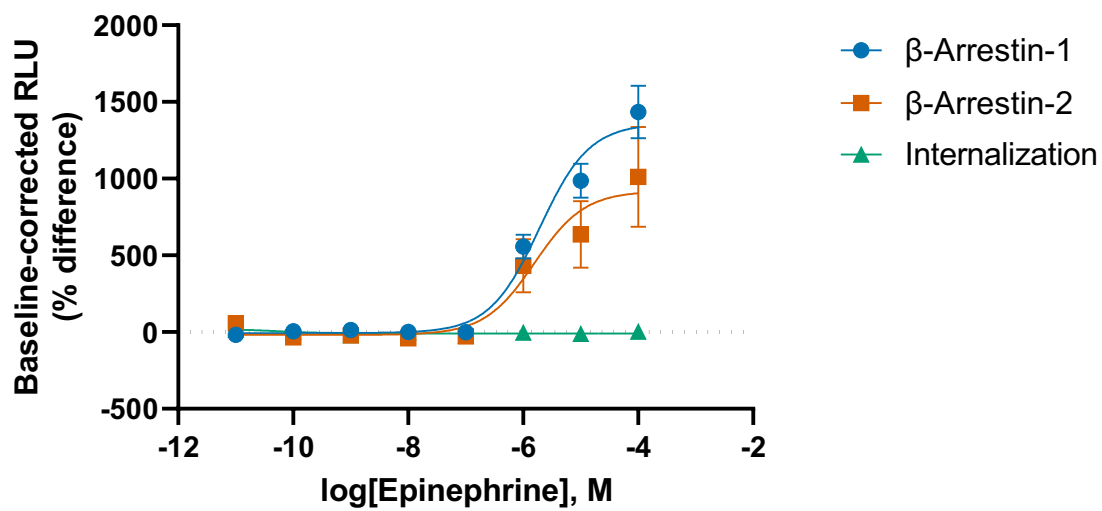
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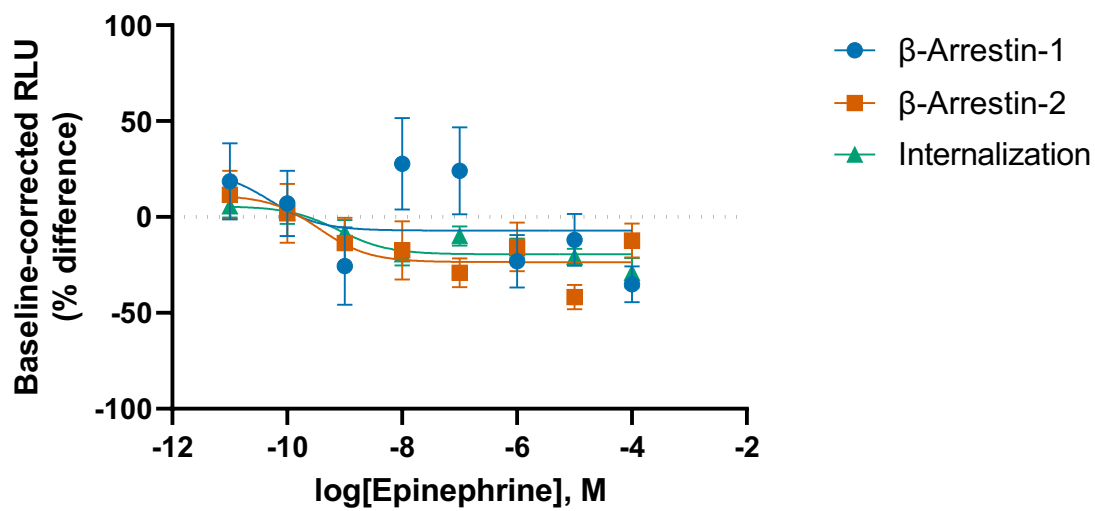
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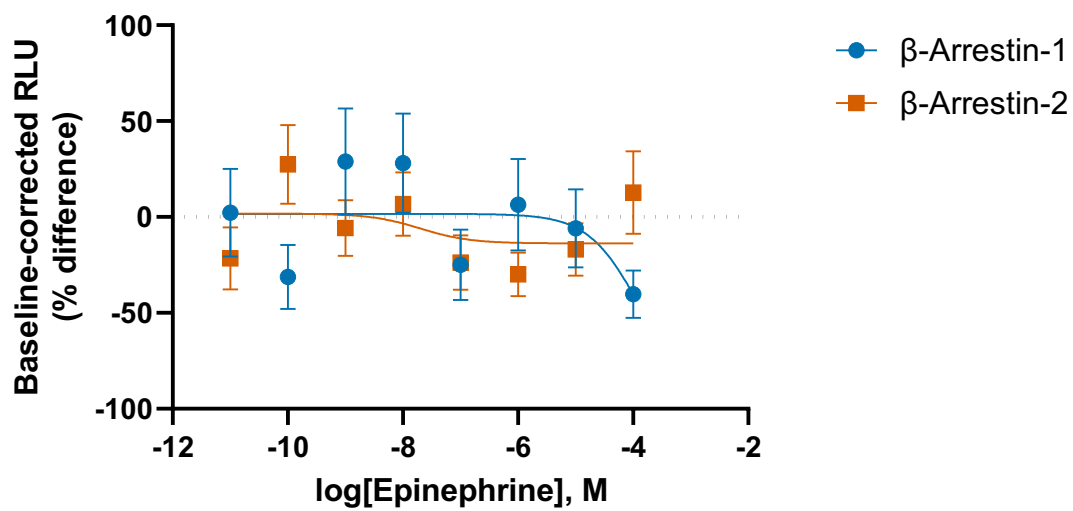
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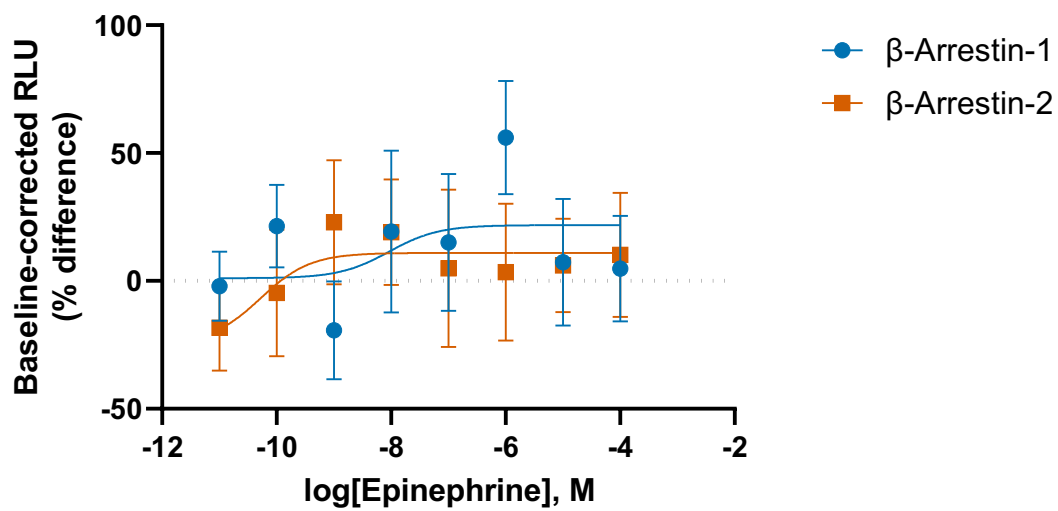
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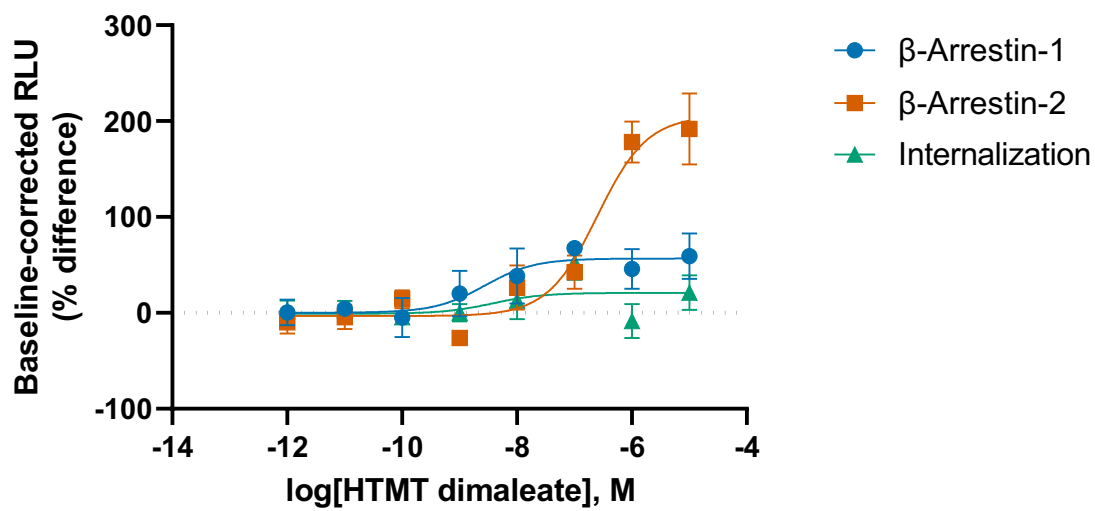
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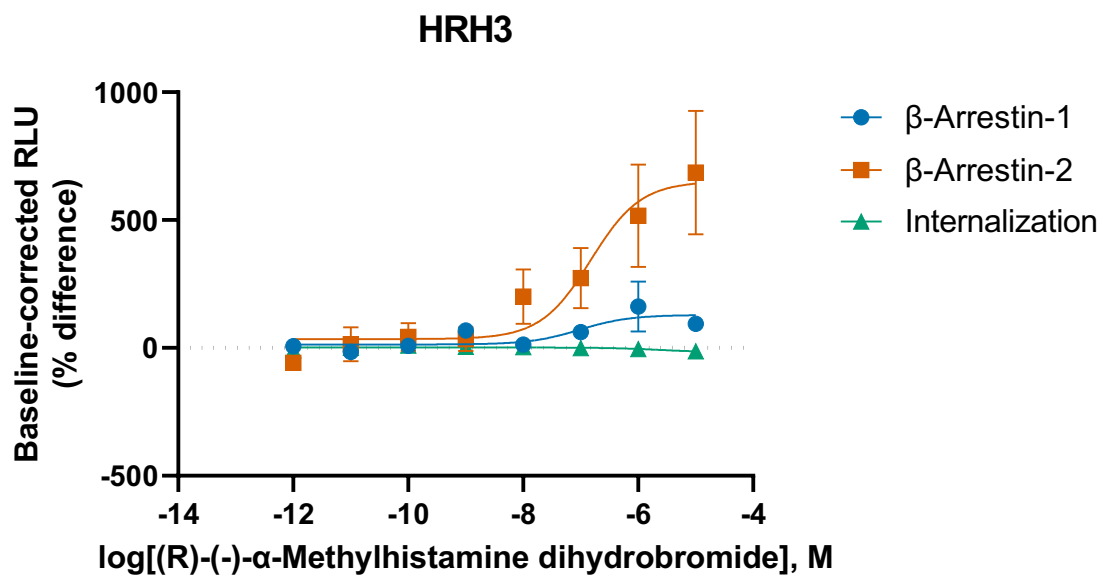
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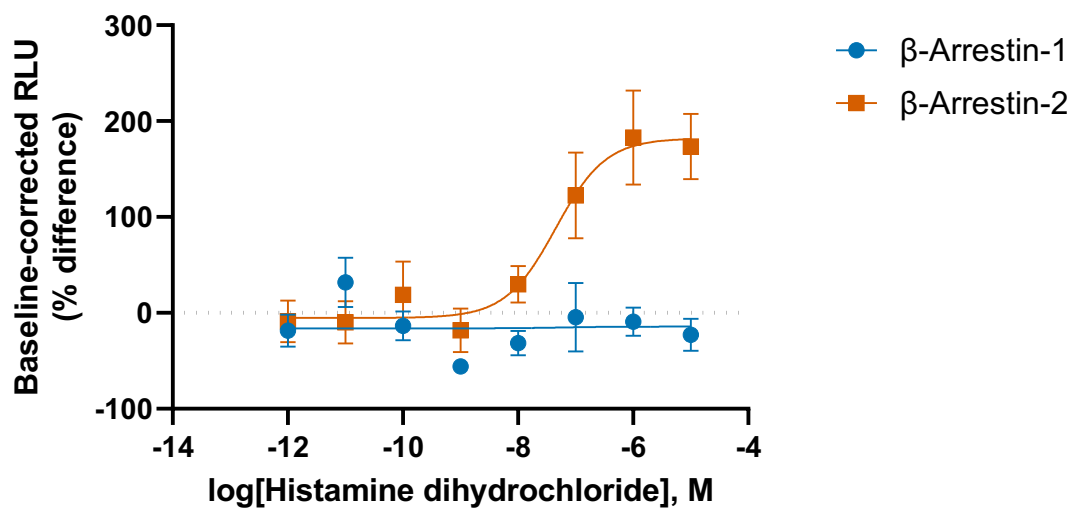
HRH1



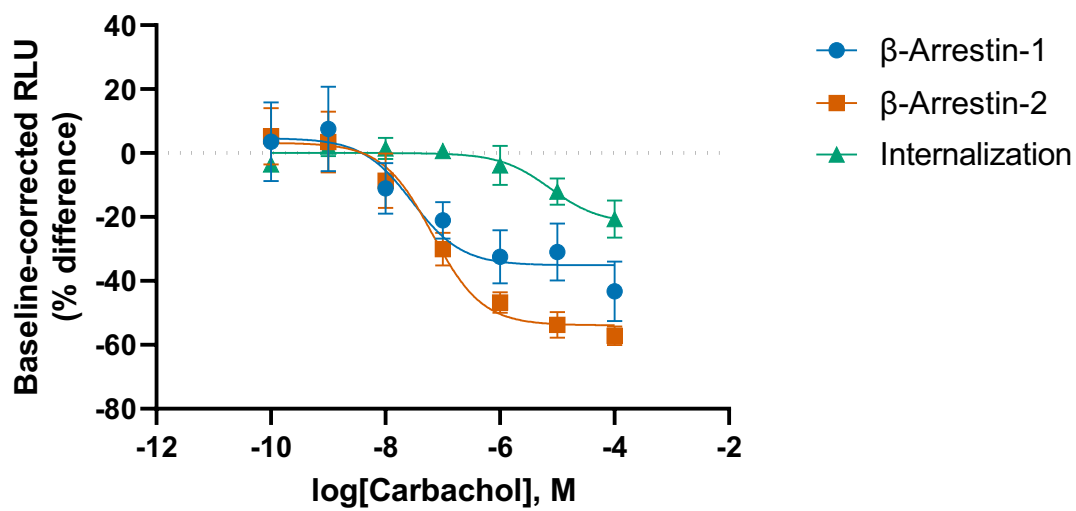
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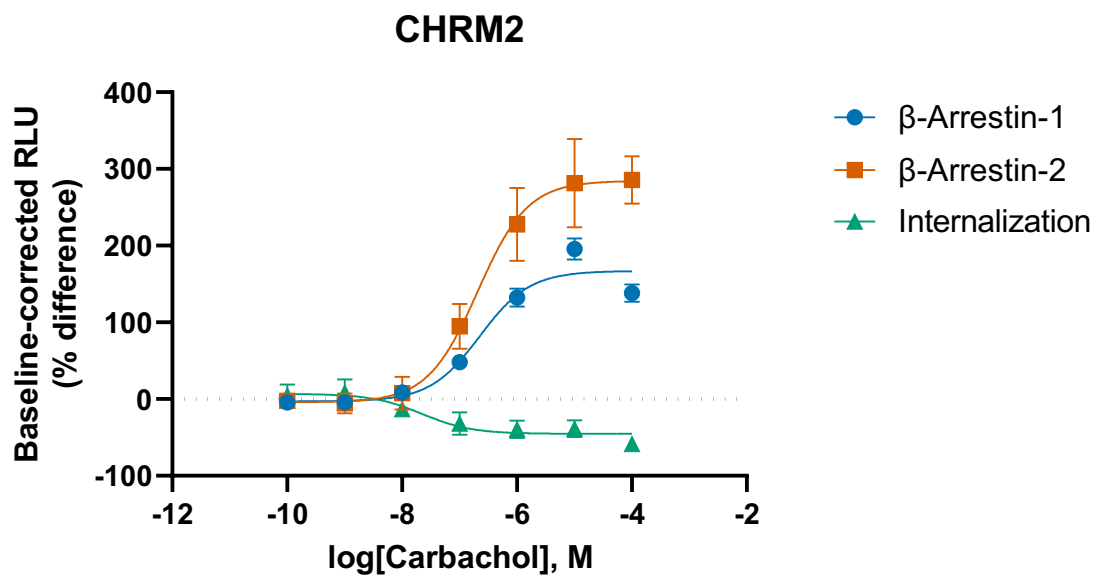
HRH4



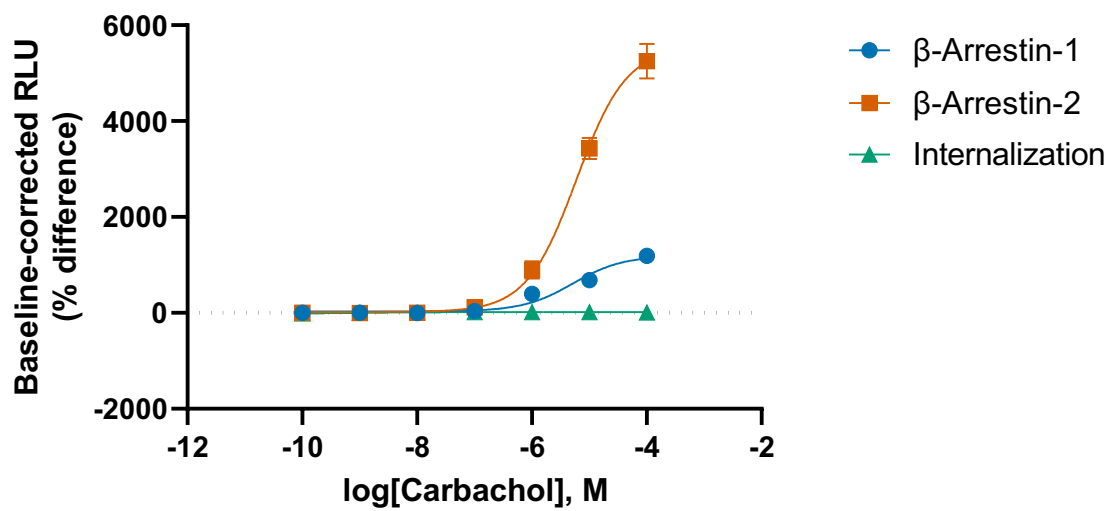
CHRM1



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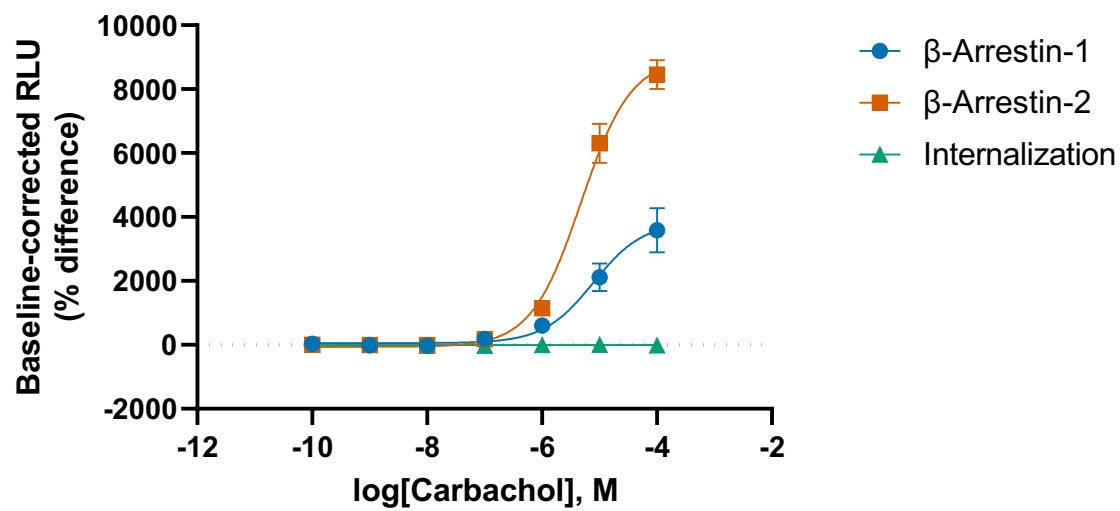


CHRM3

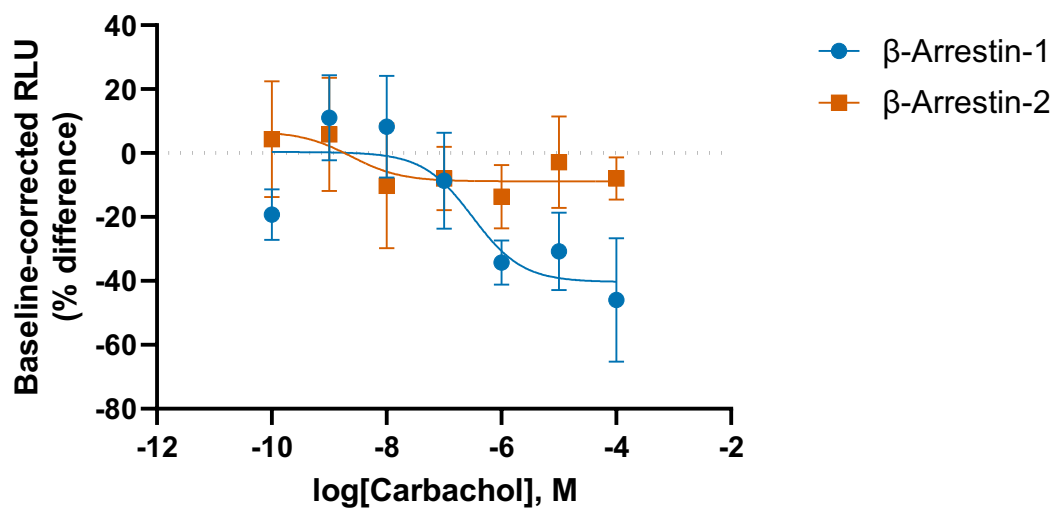


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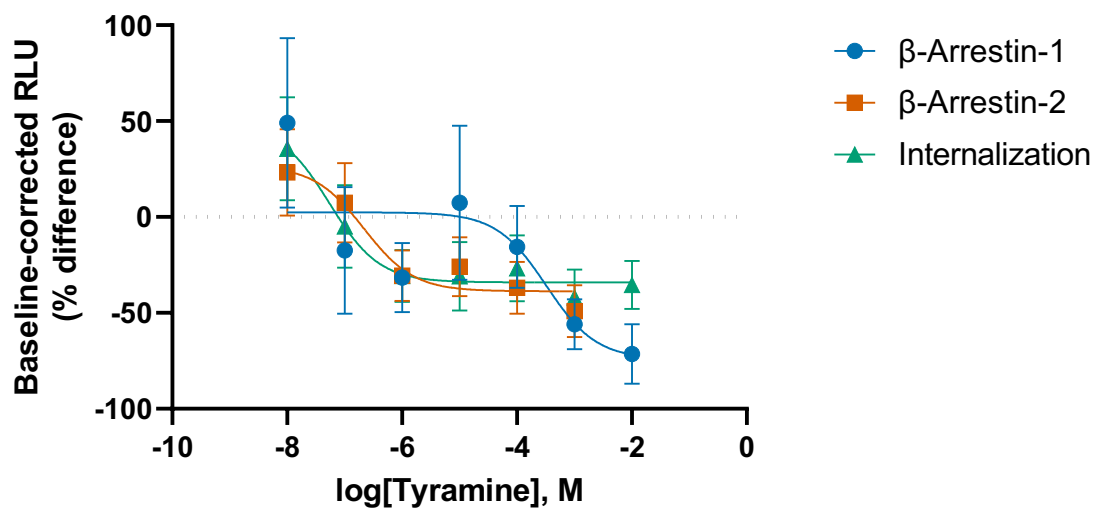
CHRM4



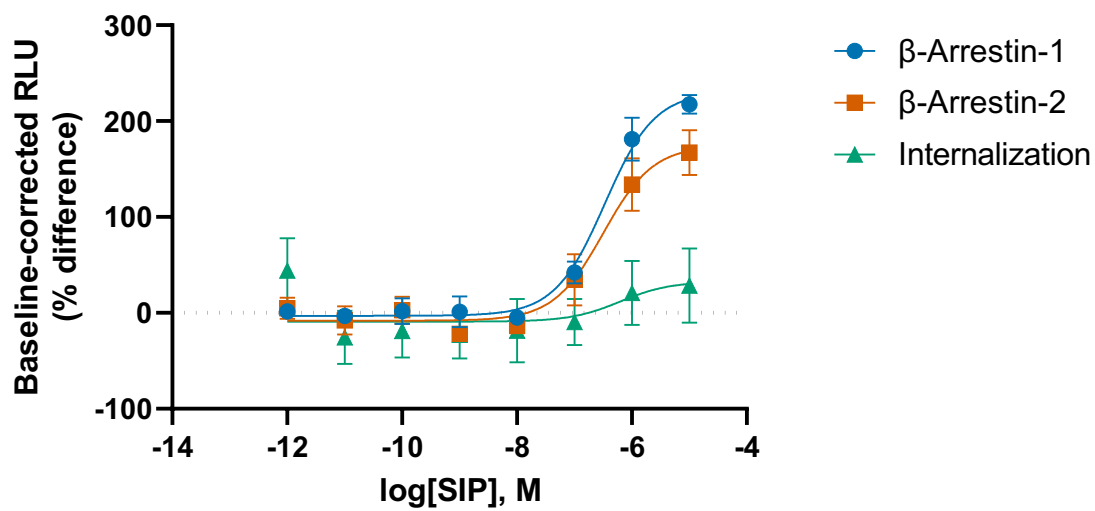
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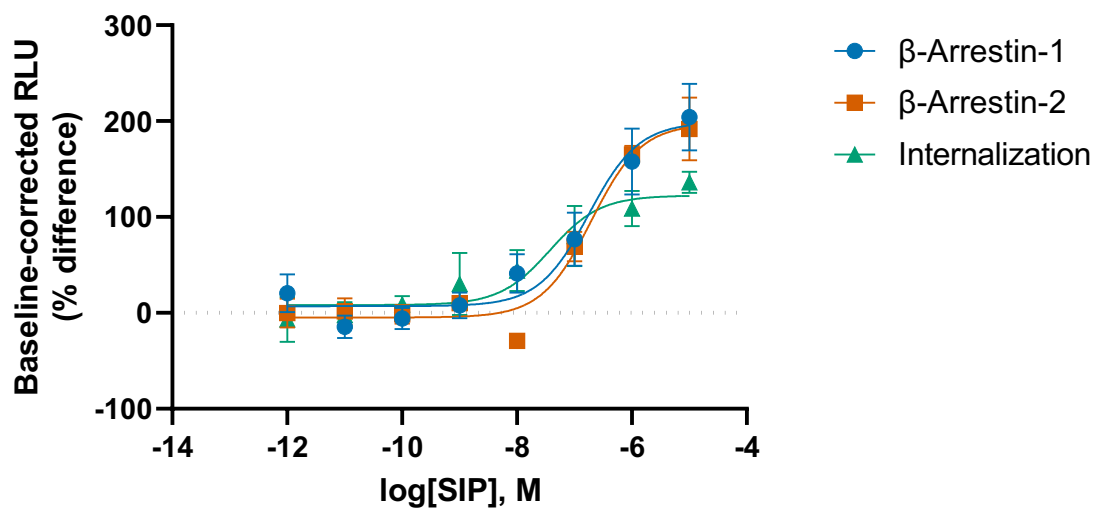
TAAR1

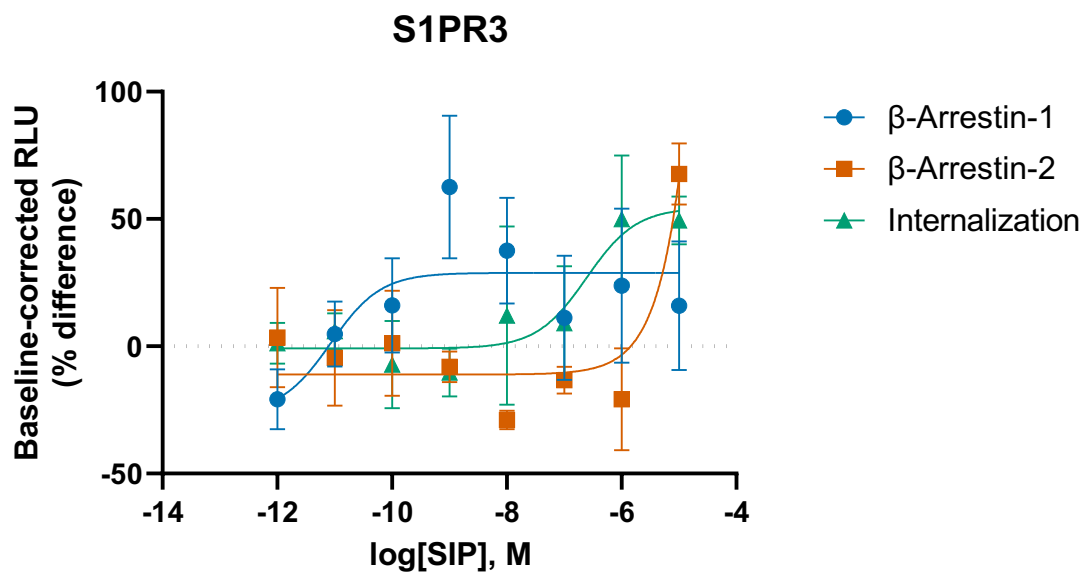


S1PR1

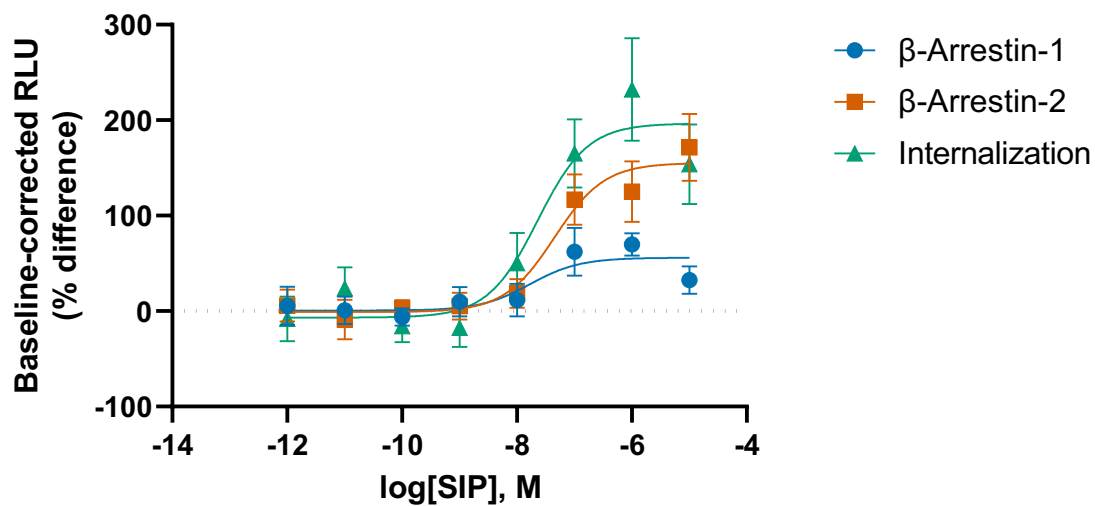


S1PR2

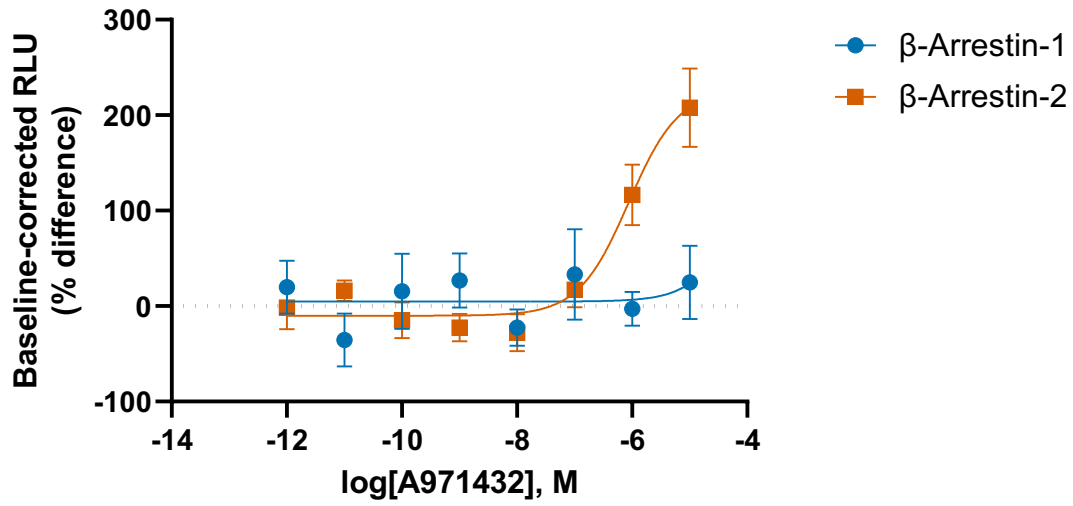


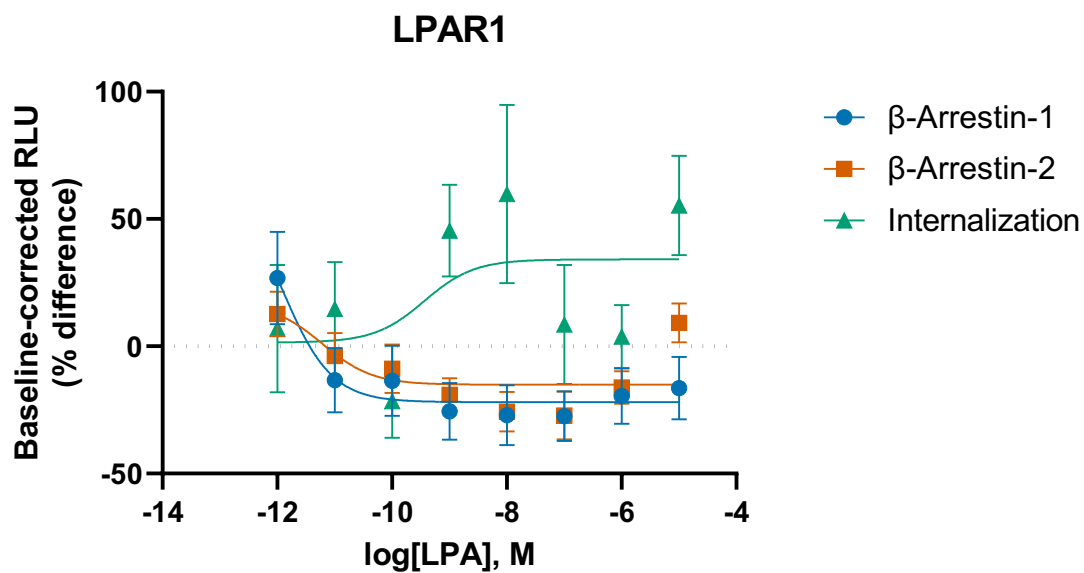


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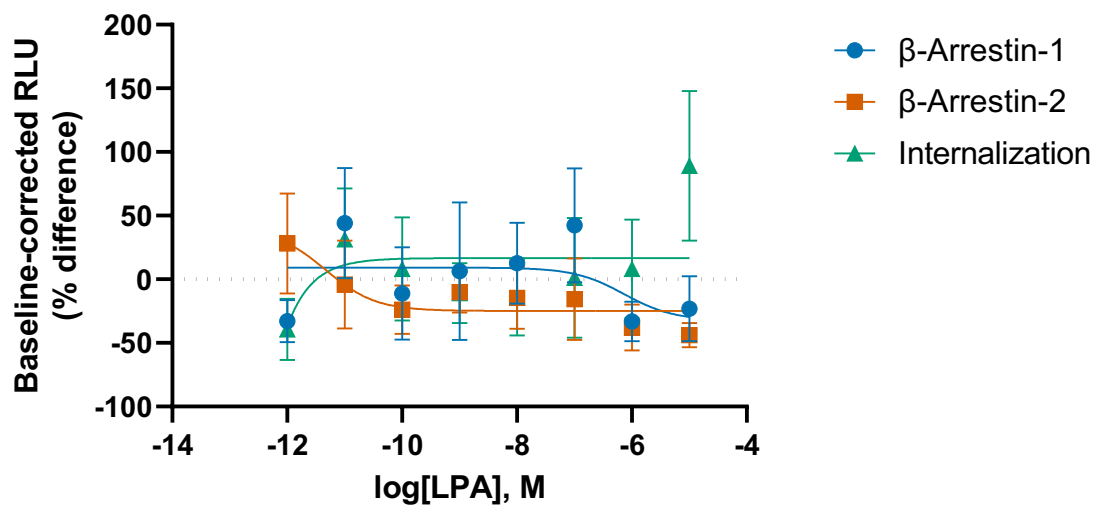


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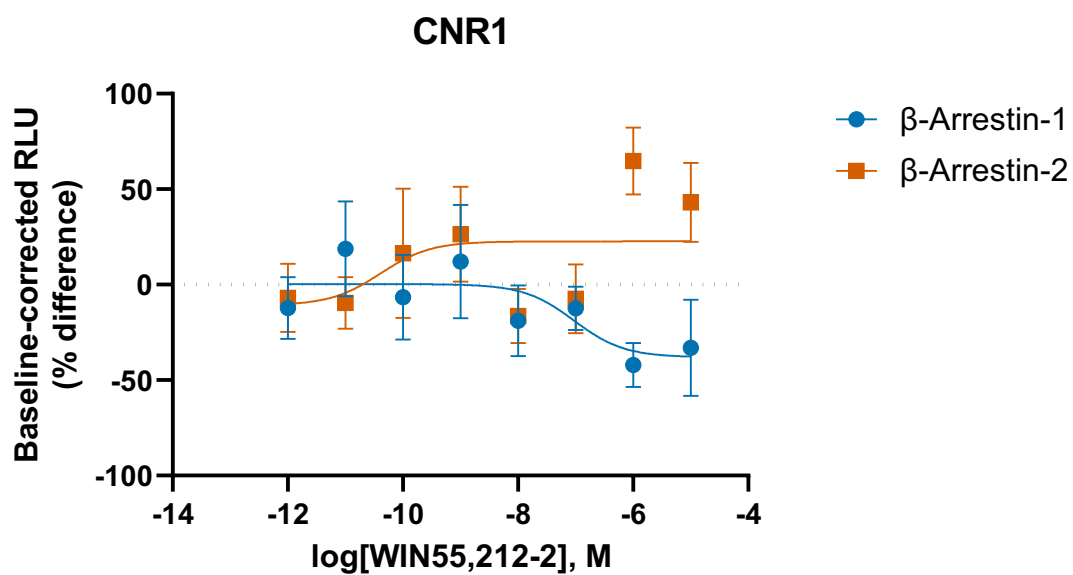




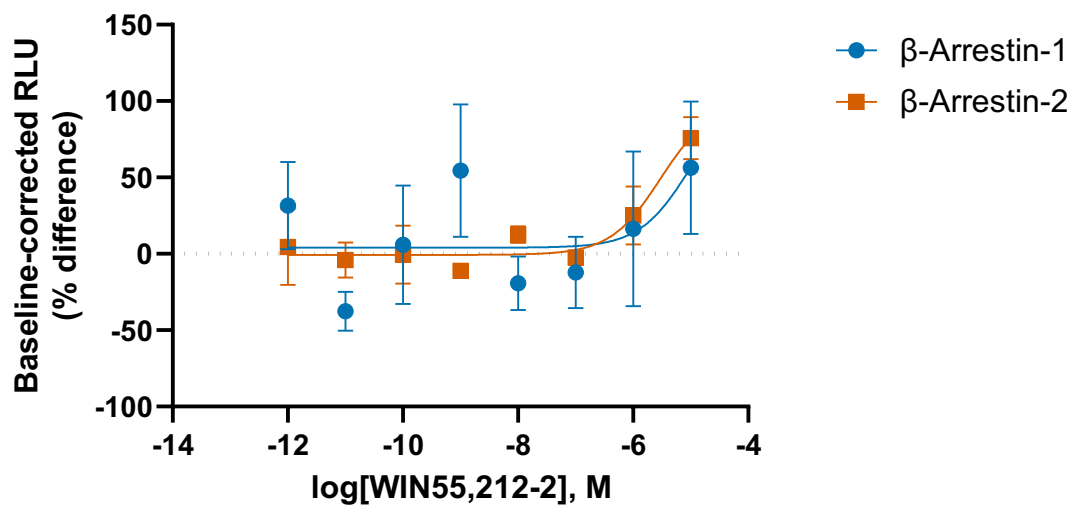
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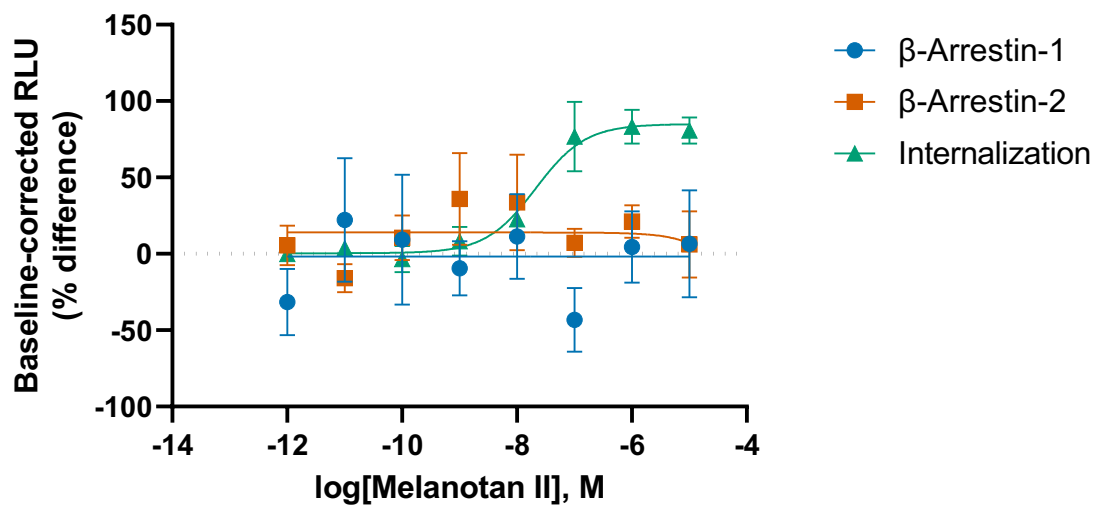
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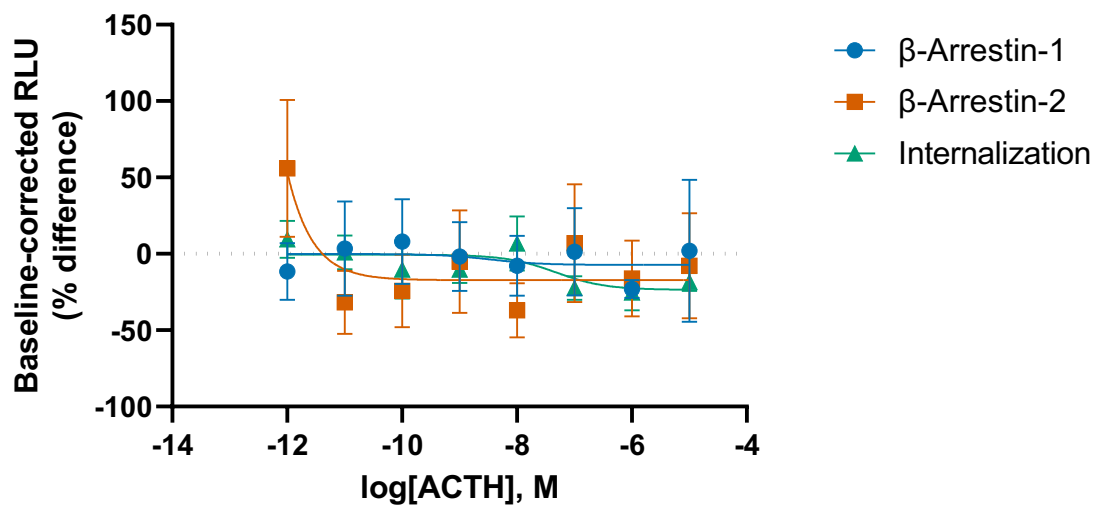
CNR2



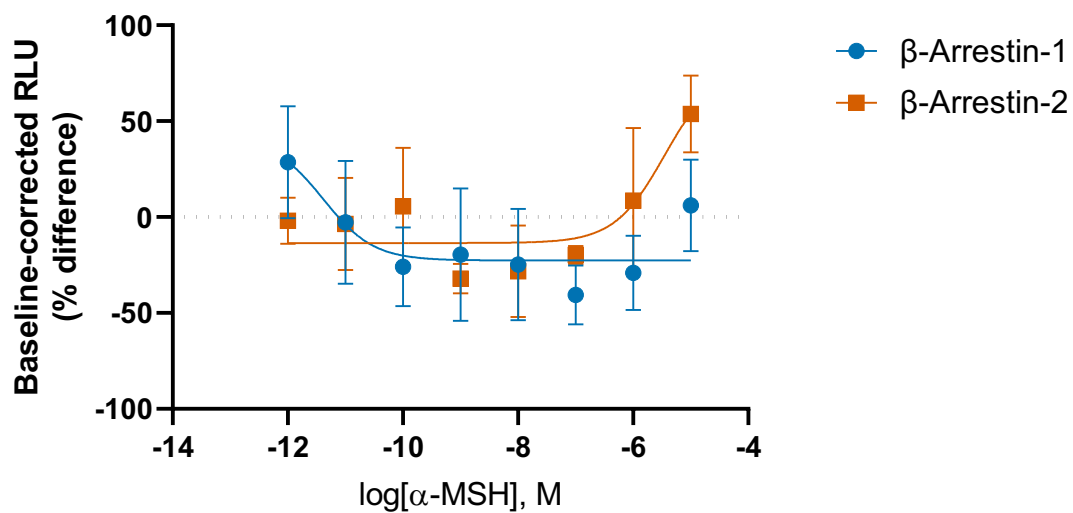
MC1R



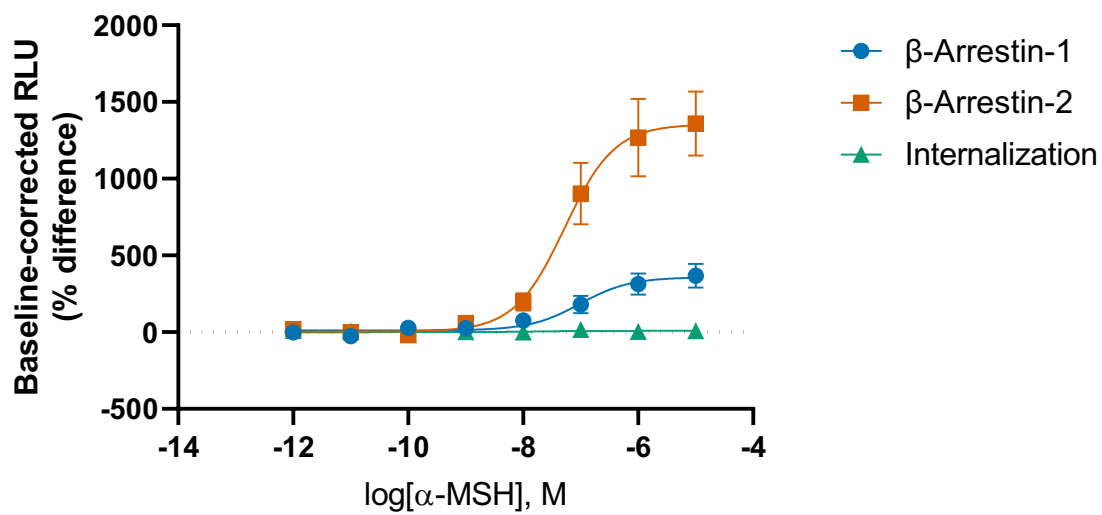
MC2R



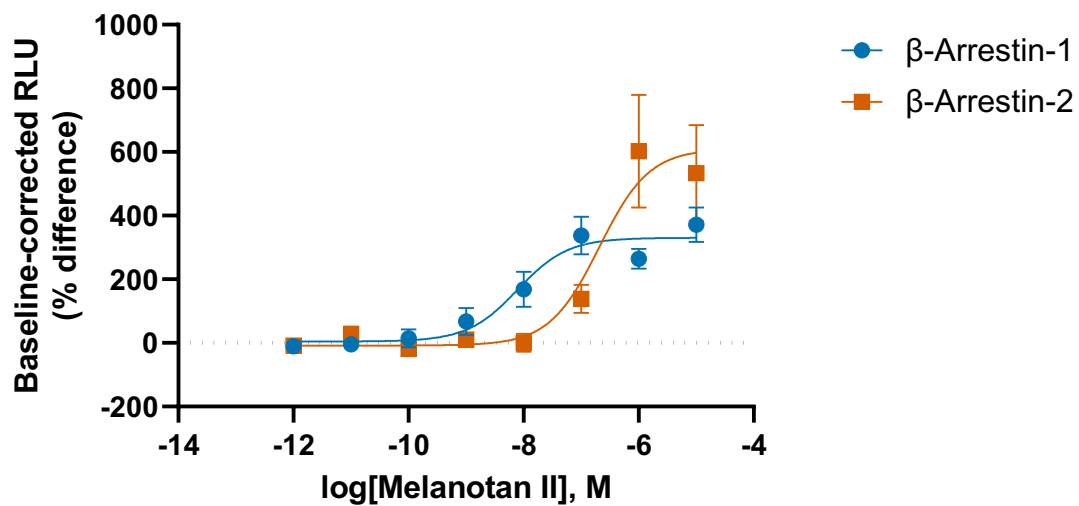
MC3R



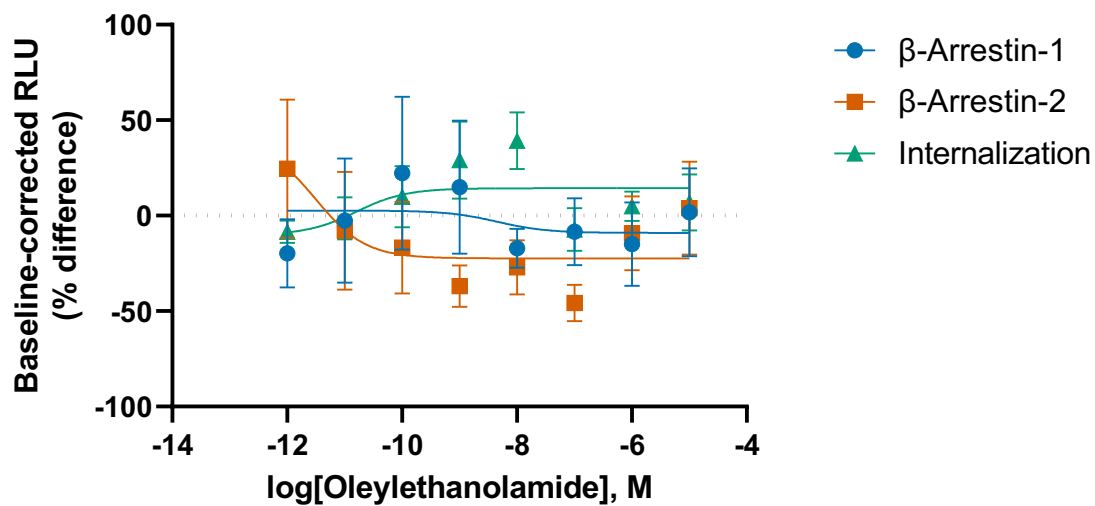
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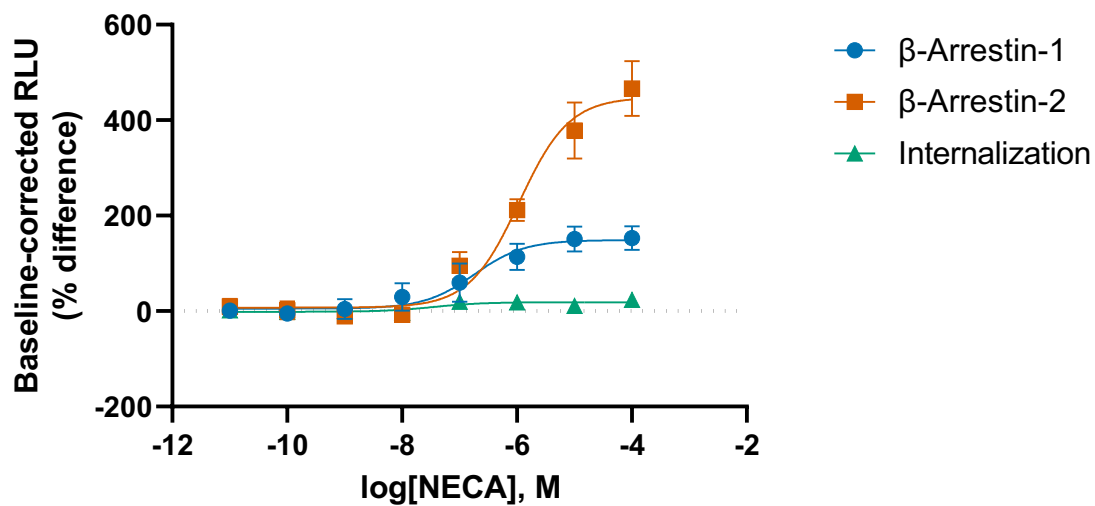
MC5R



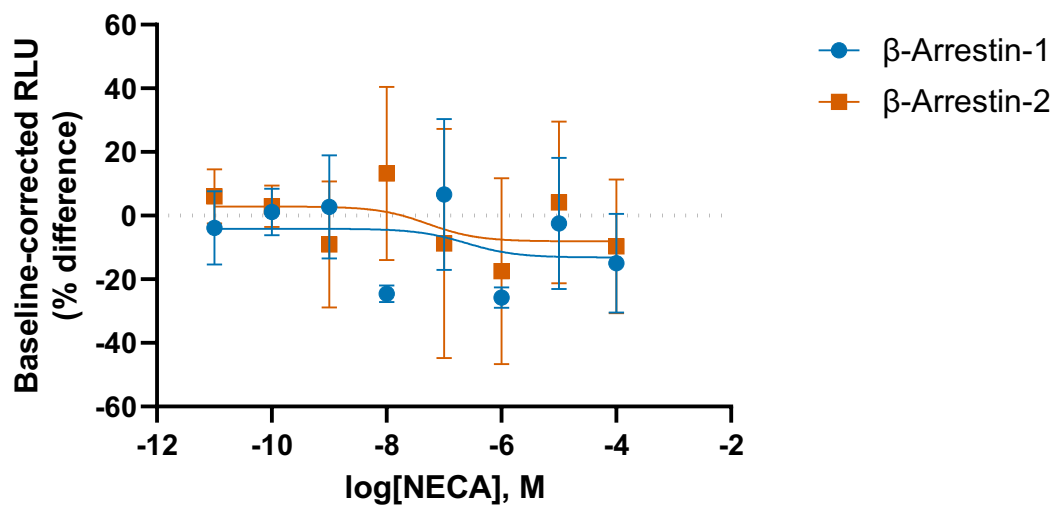
GPR119 - Oleylethanolamide



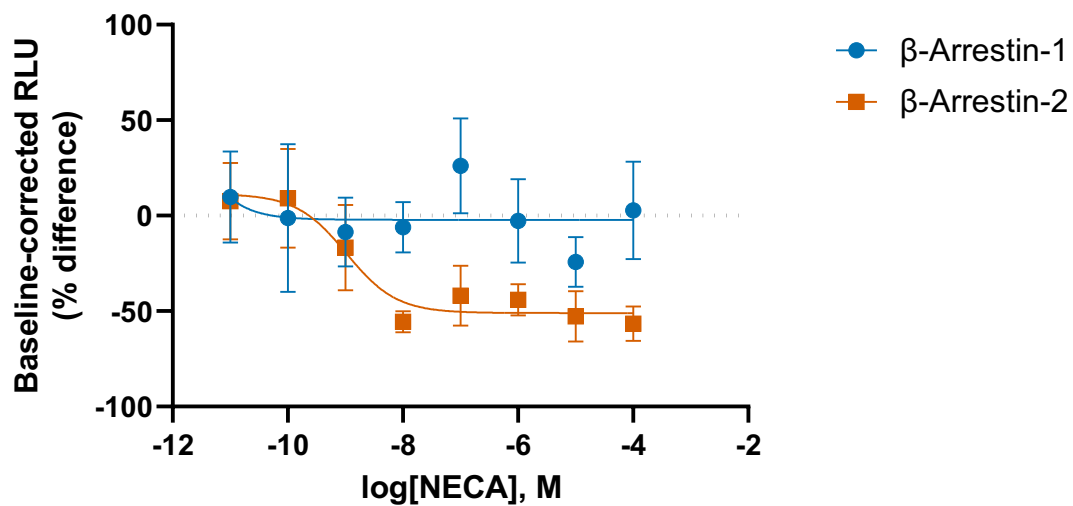
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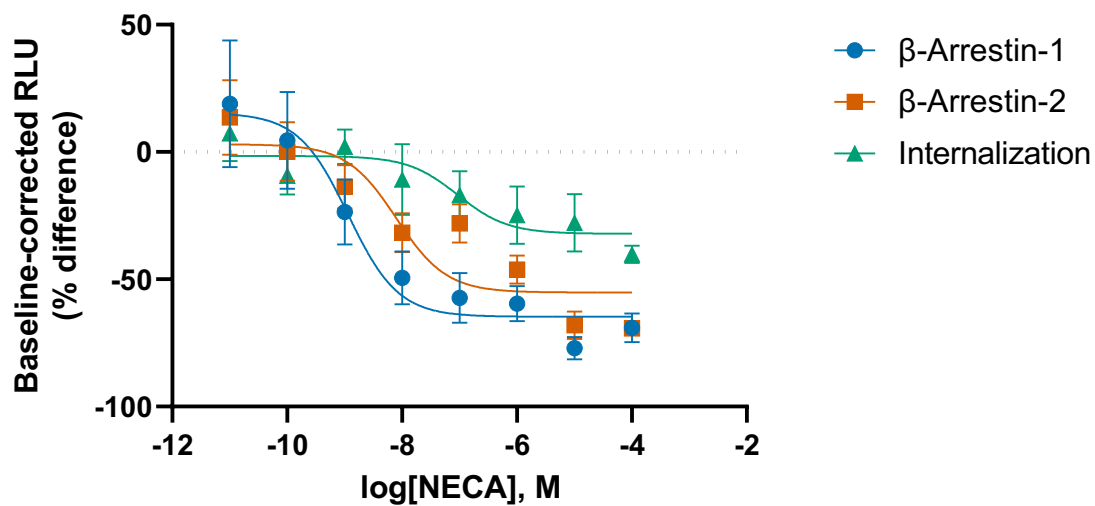
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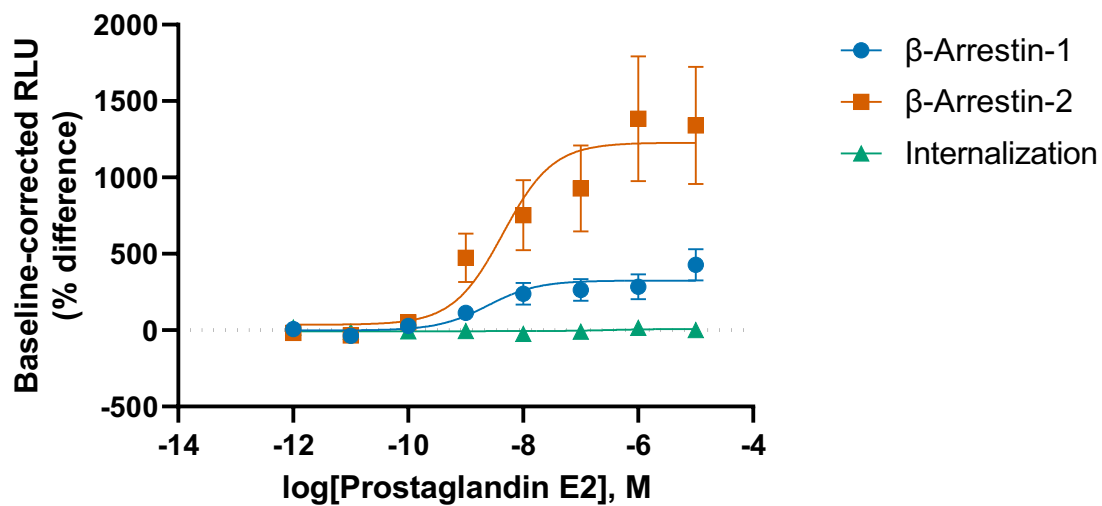
ADORA2B



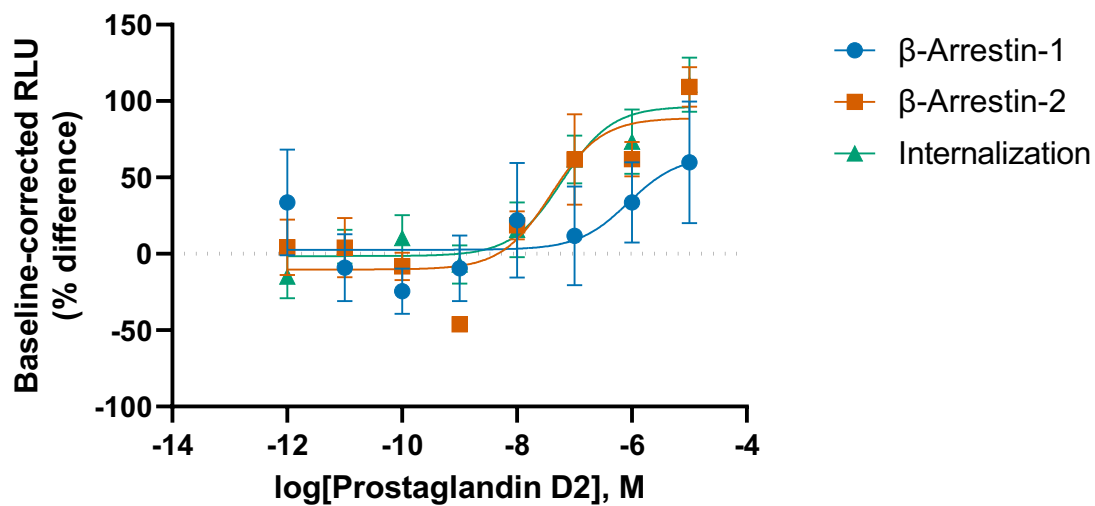
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PTGER4

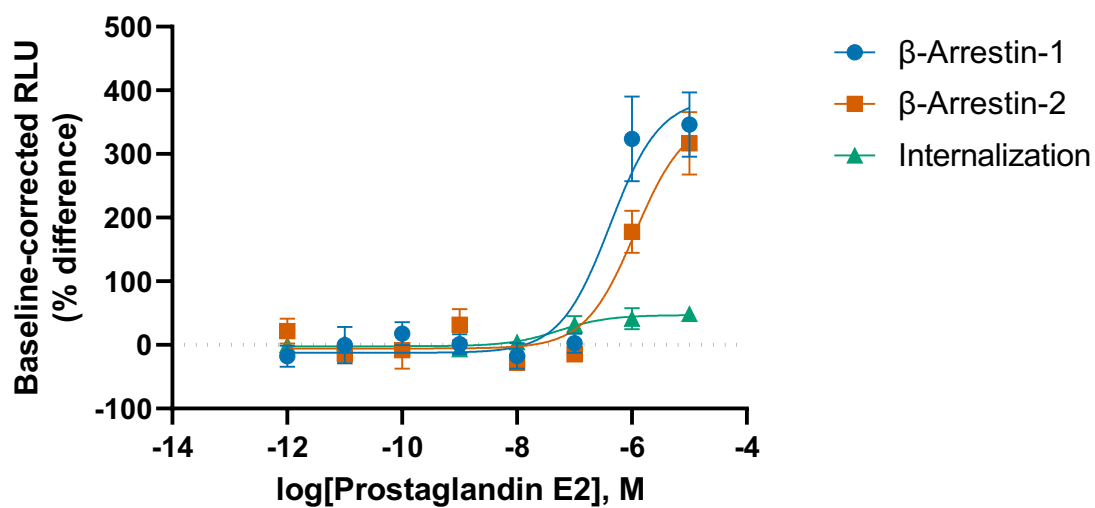


PTGDR



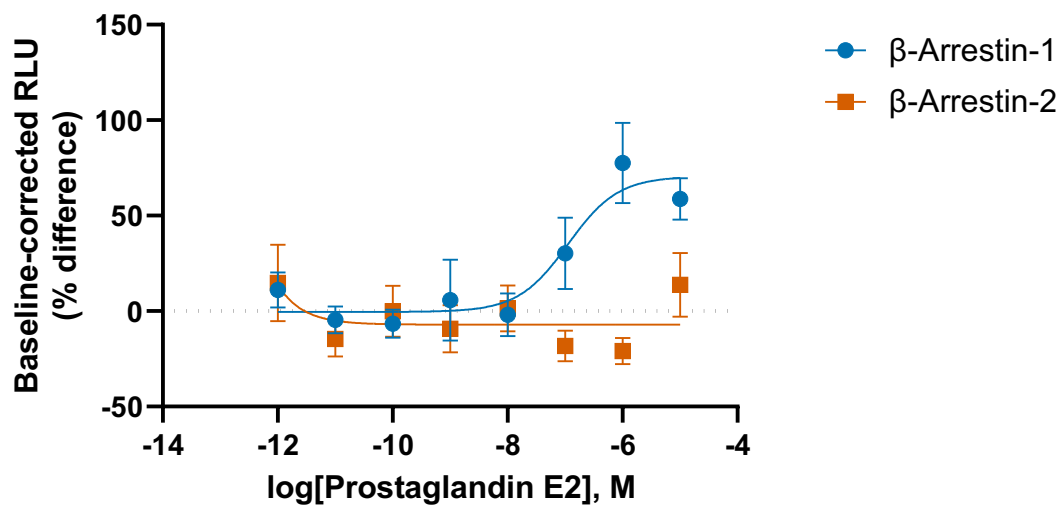
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PTGER2

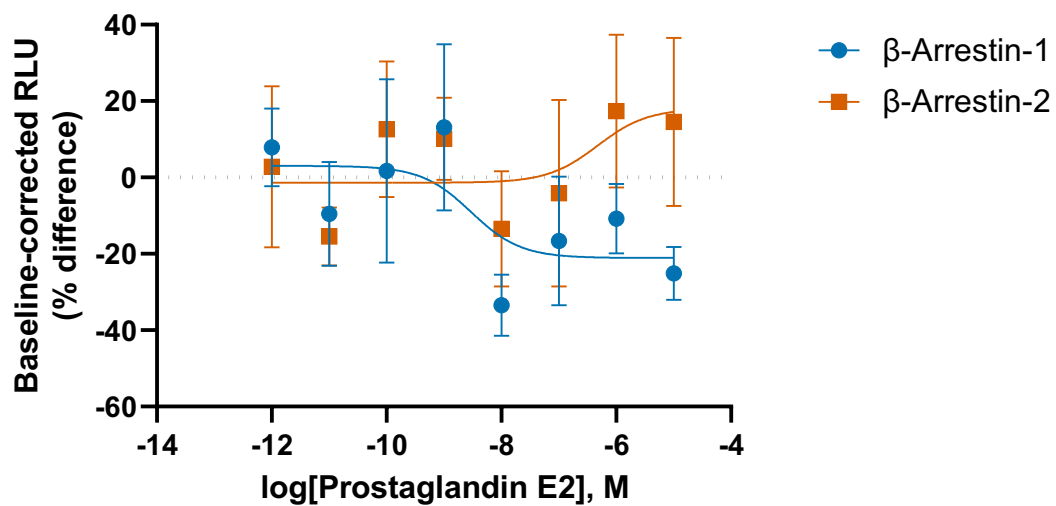


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PTGER1

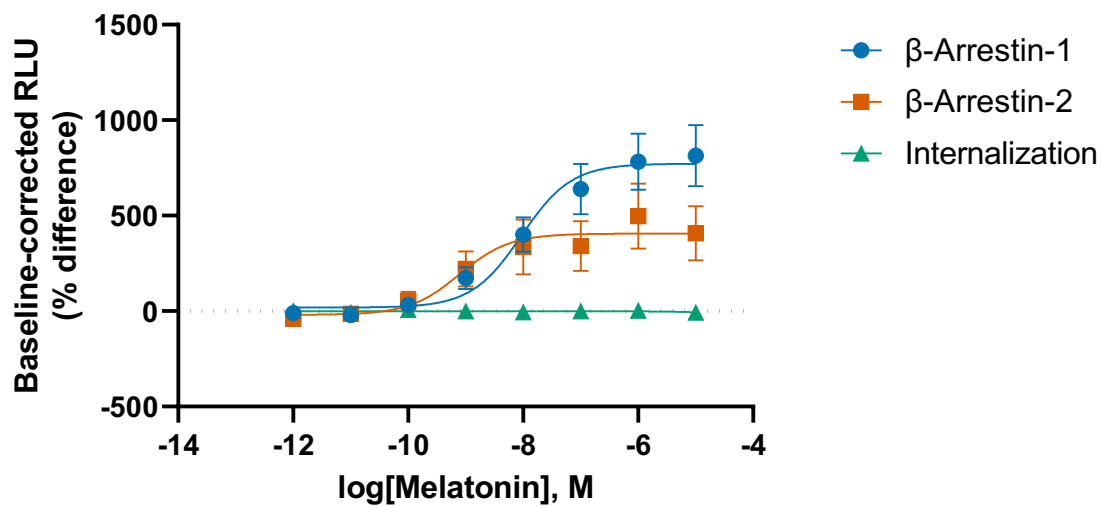


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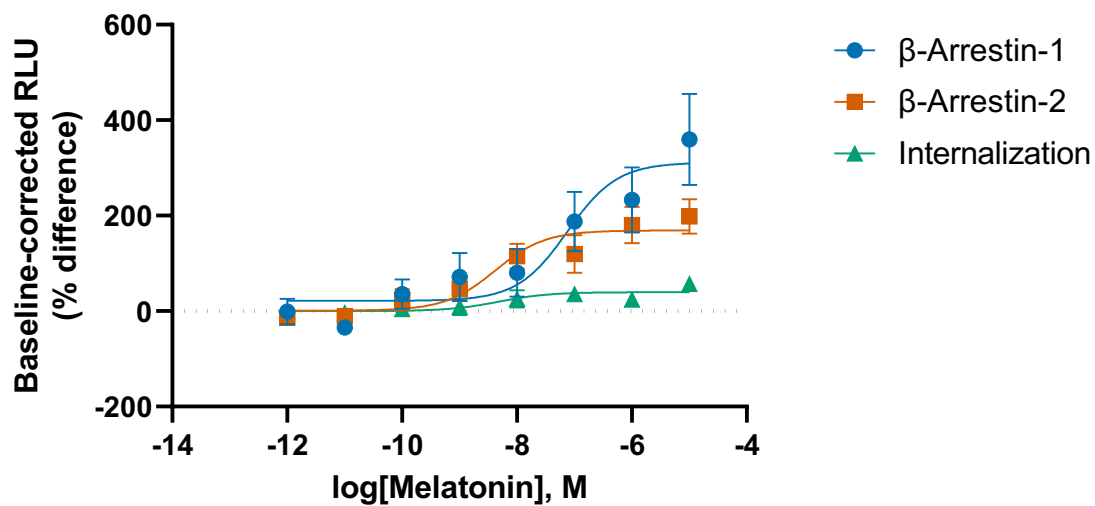
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MTNR1A

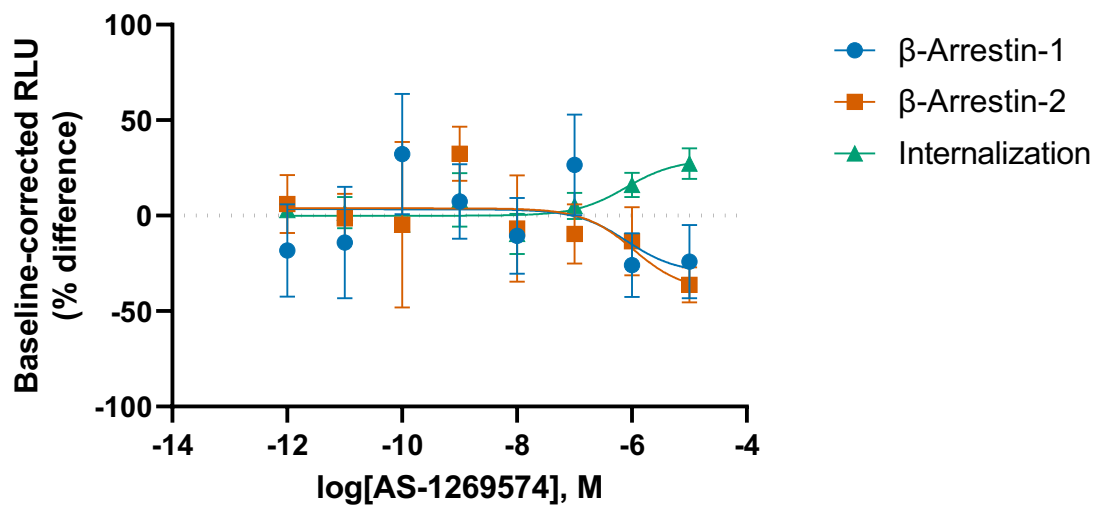


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MTNR1B

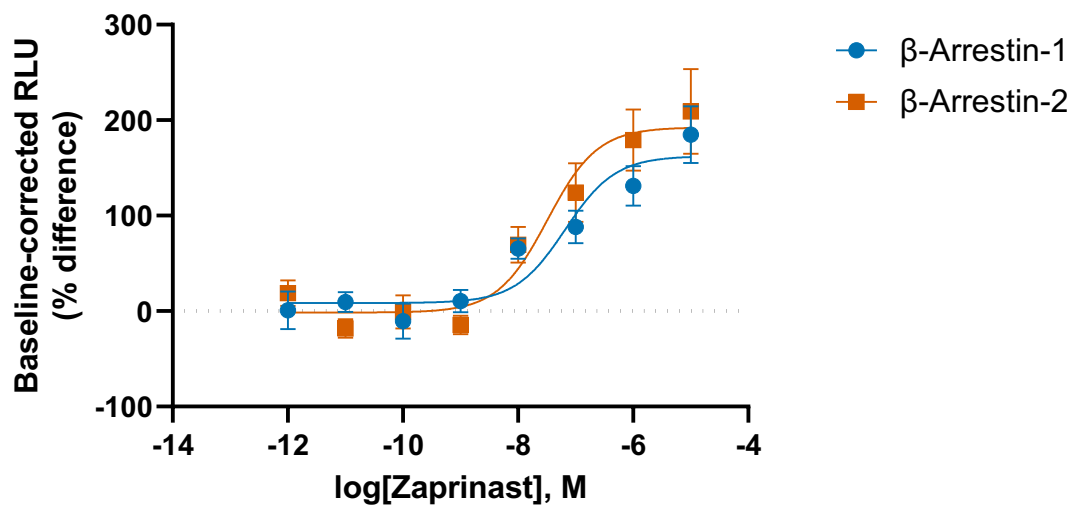


GPR119 - AS-1269574



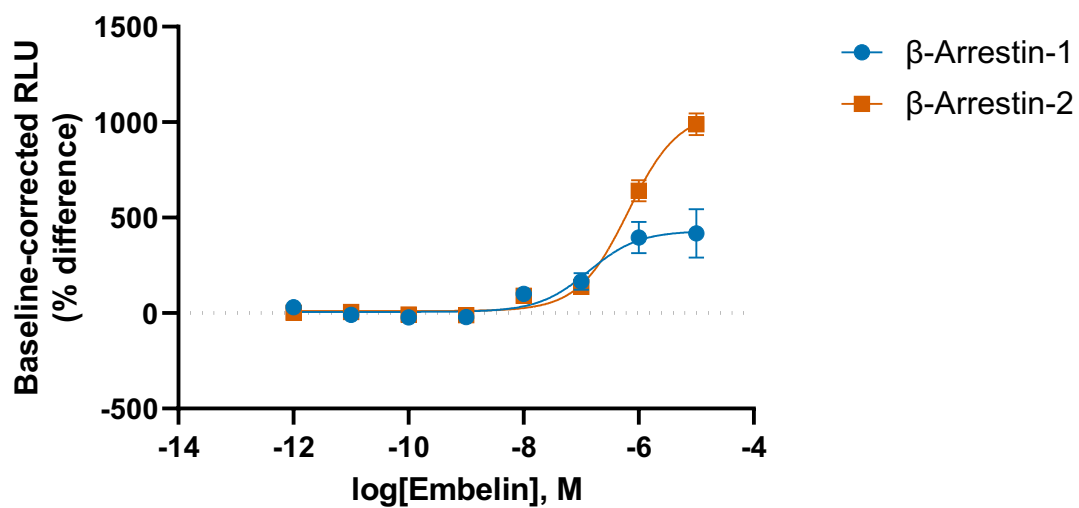
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GPR35

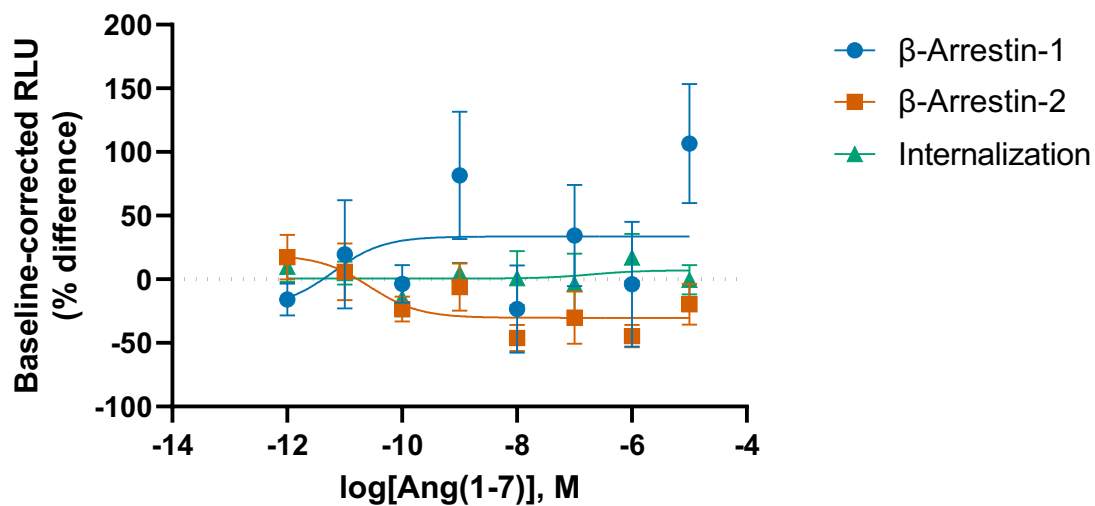


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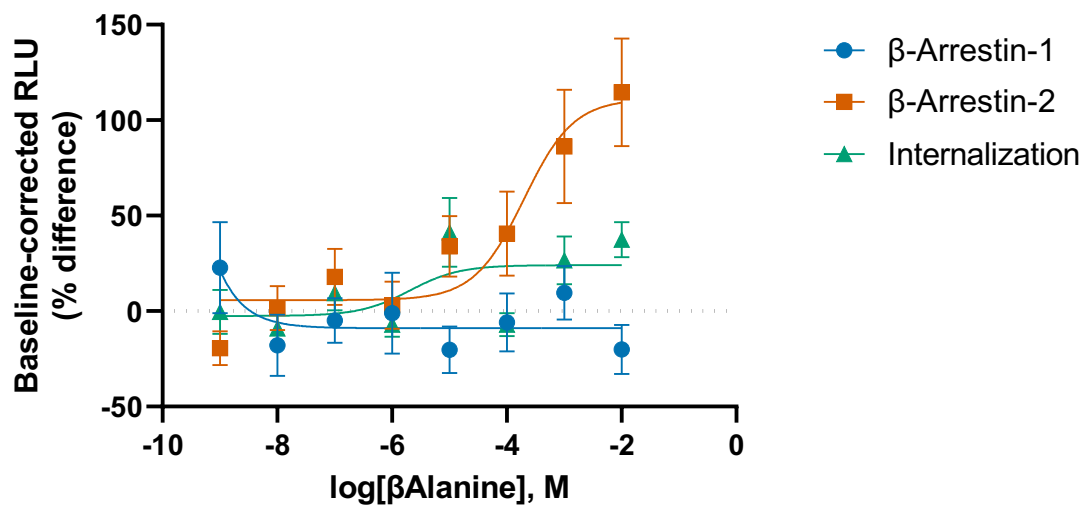
GPR84



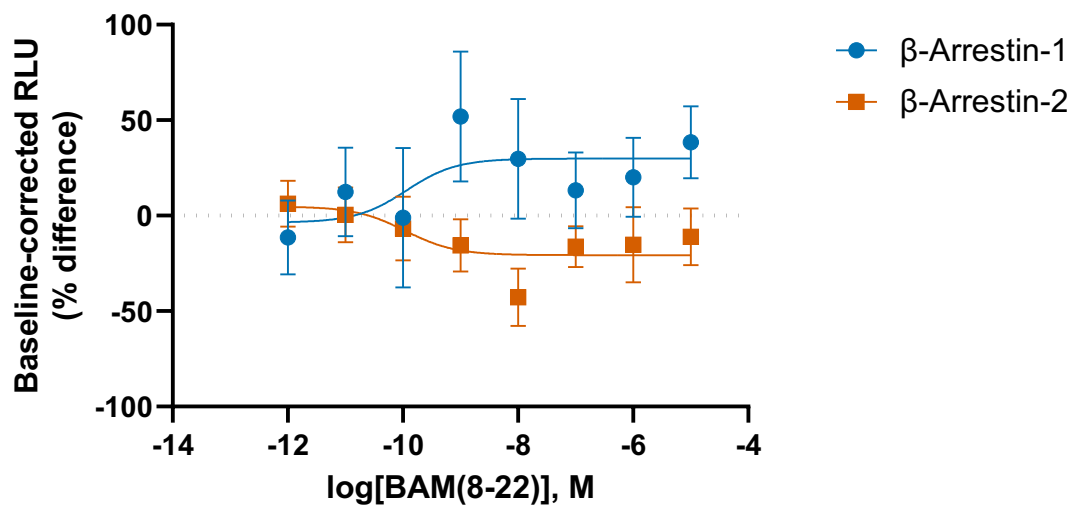
MAS1



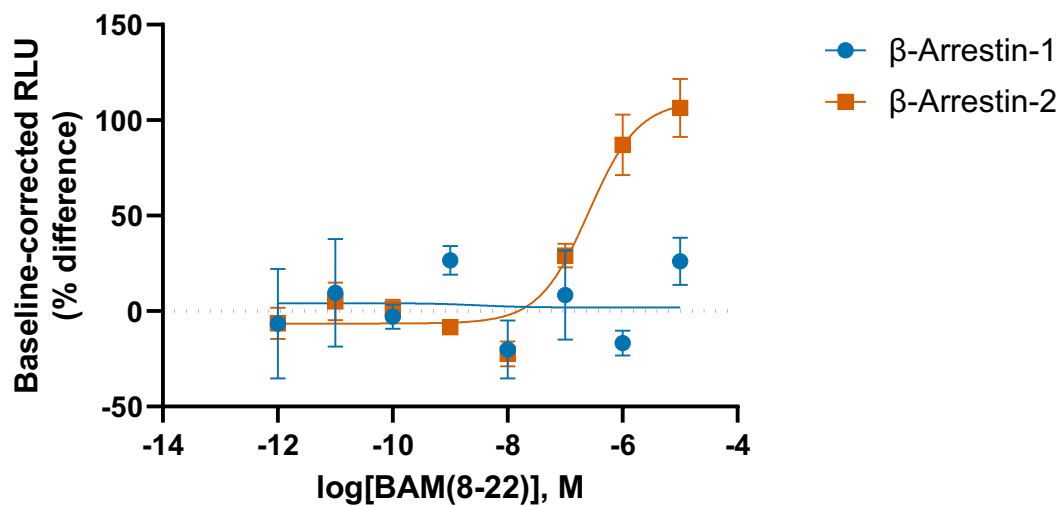
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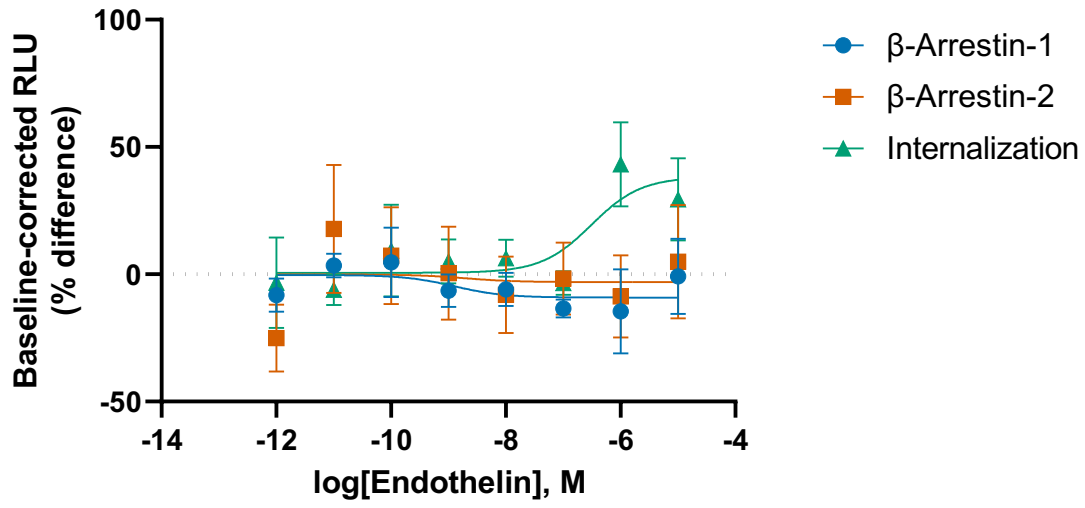
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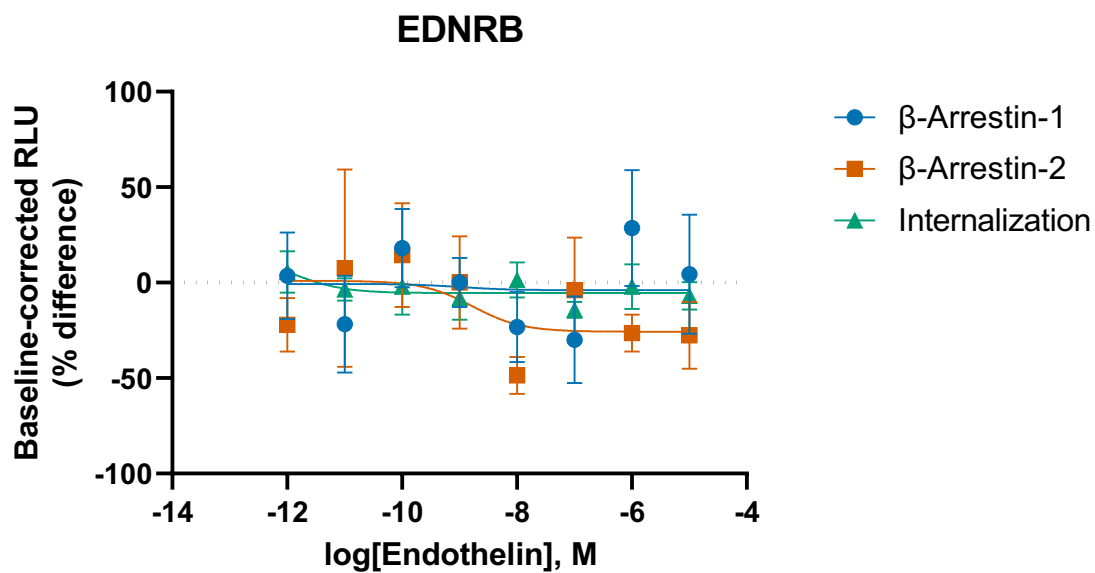


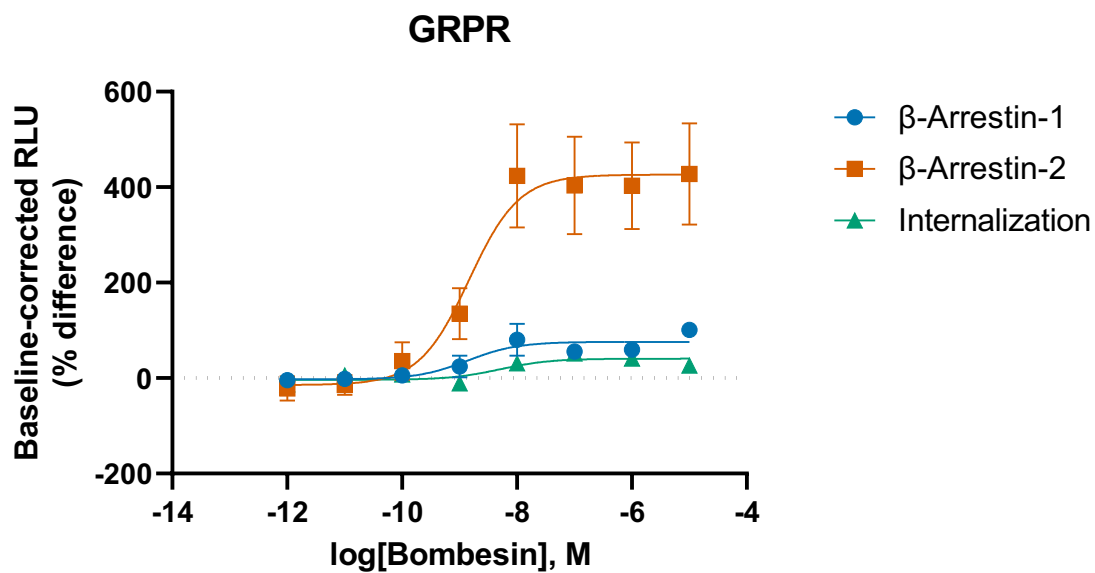
MRGPRX2



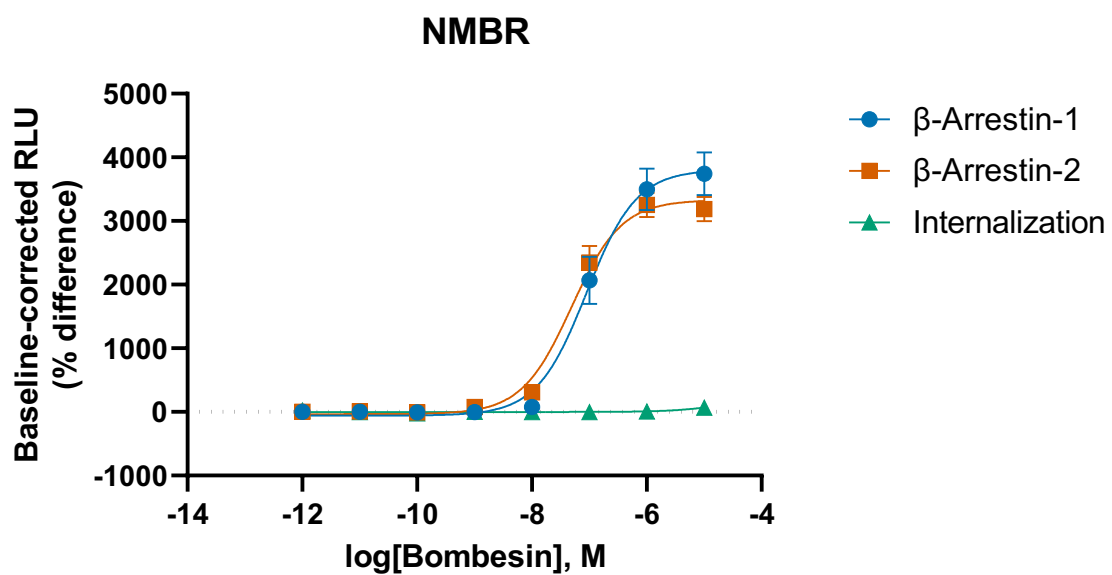
EDNRA



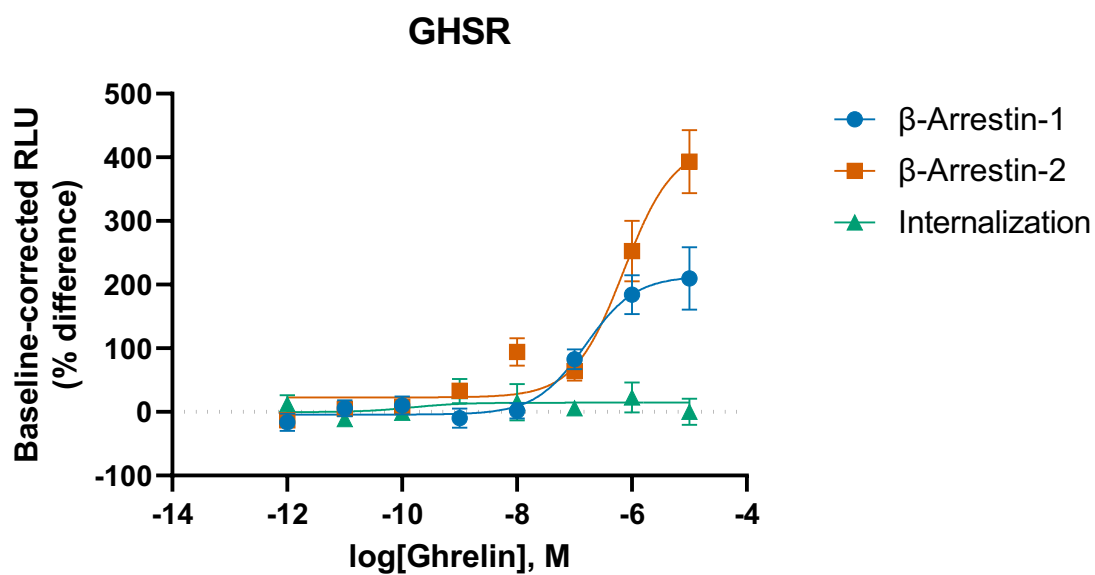




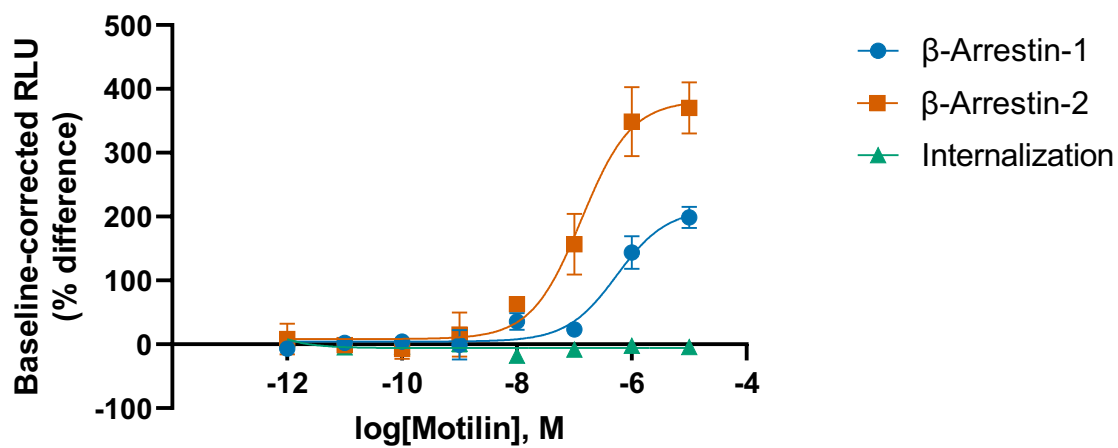
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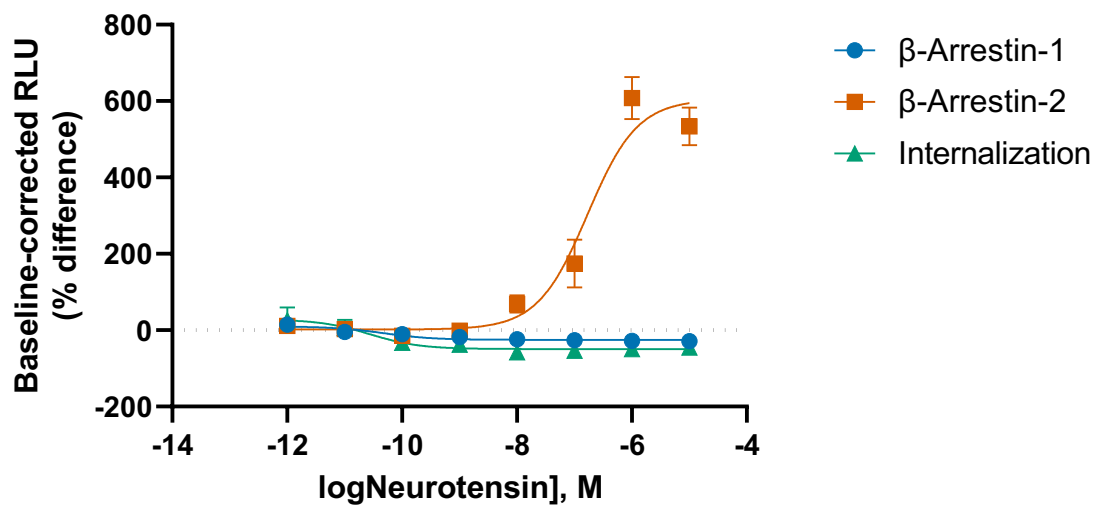
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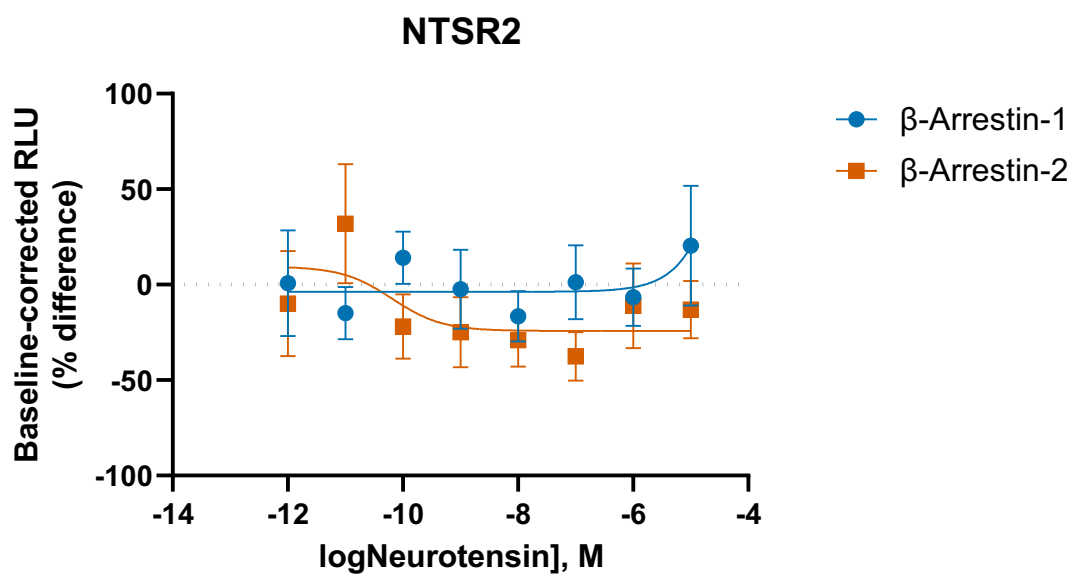
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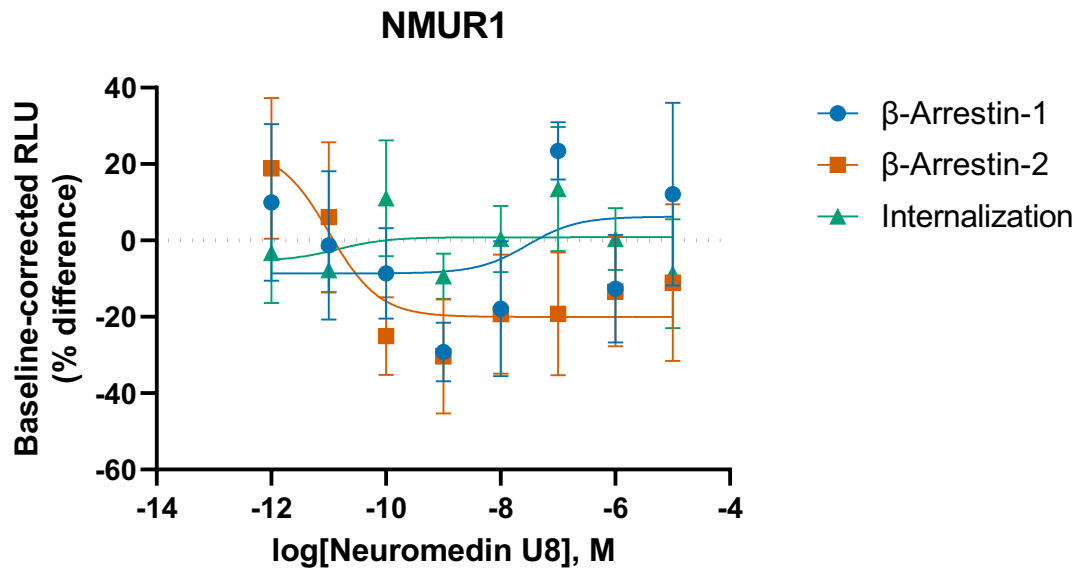


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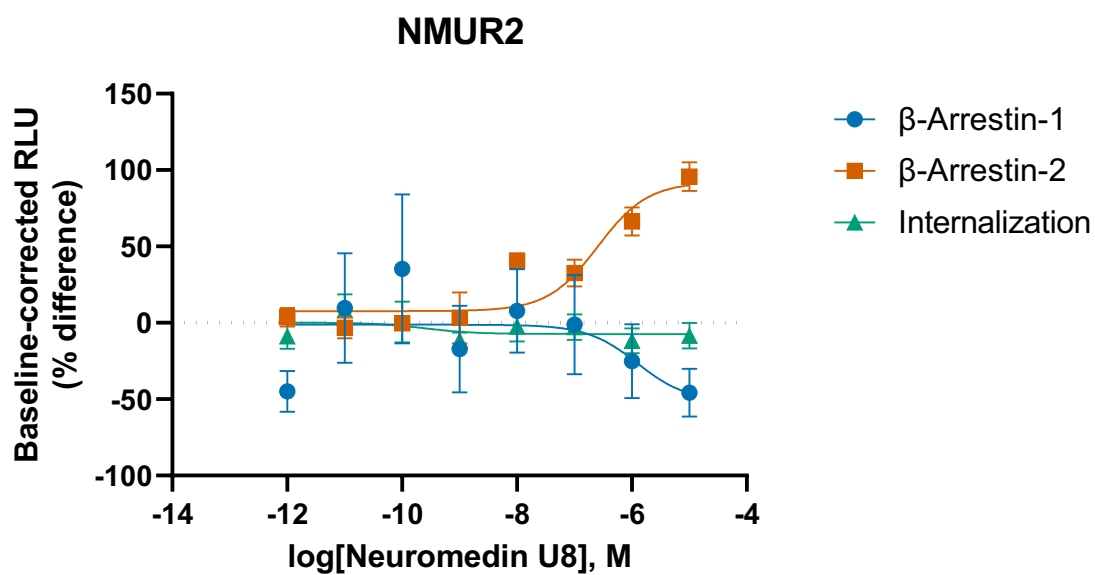


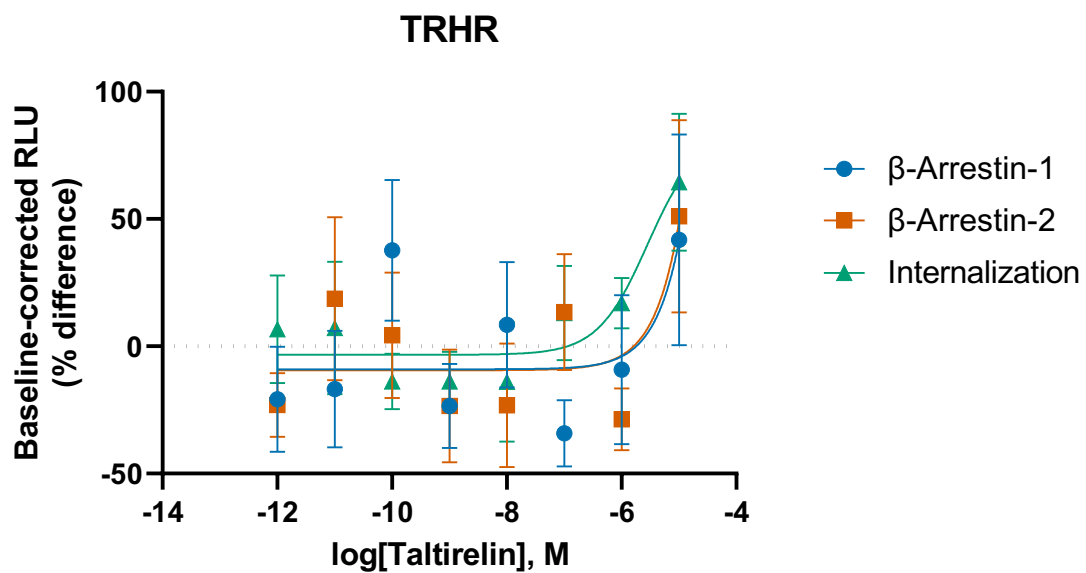
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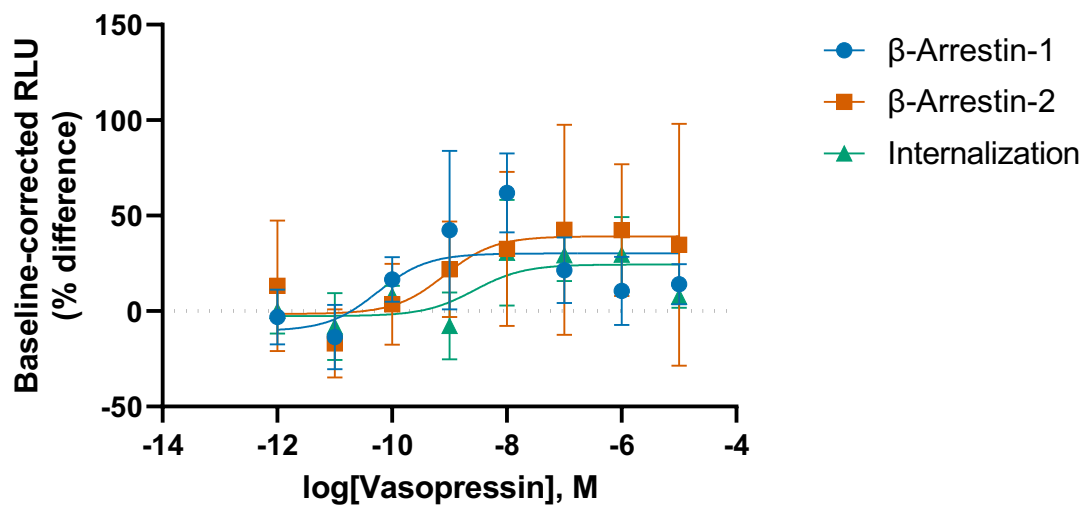


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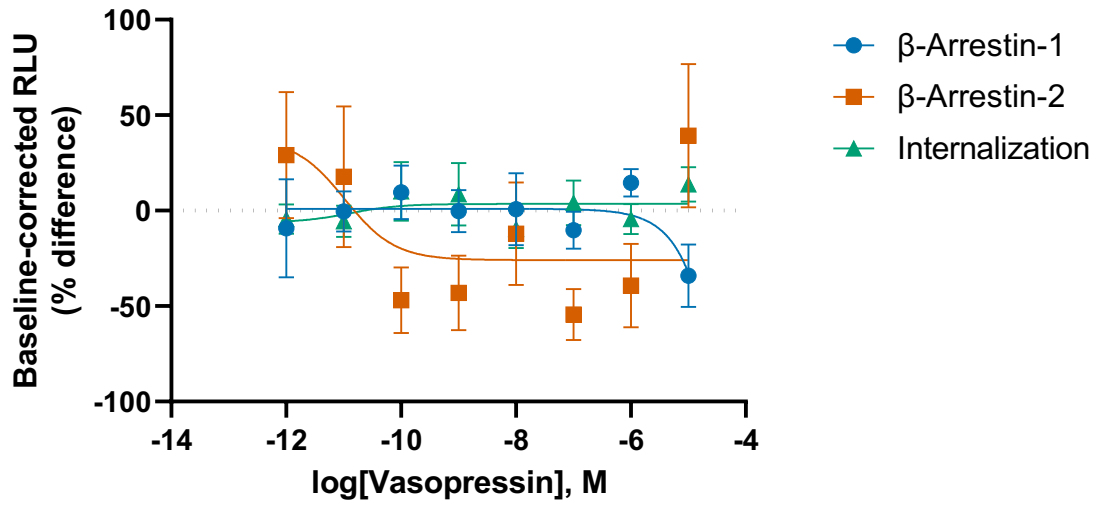




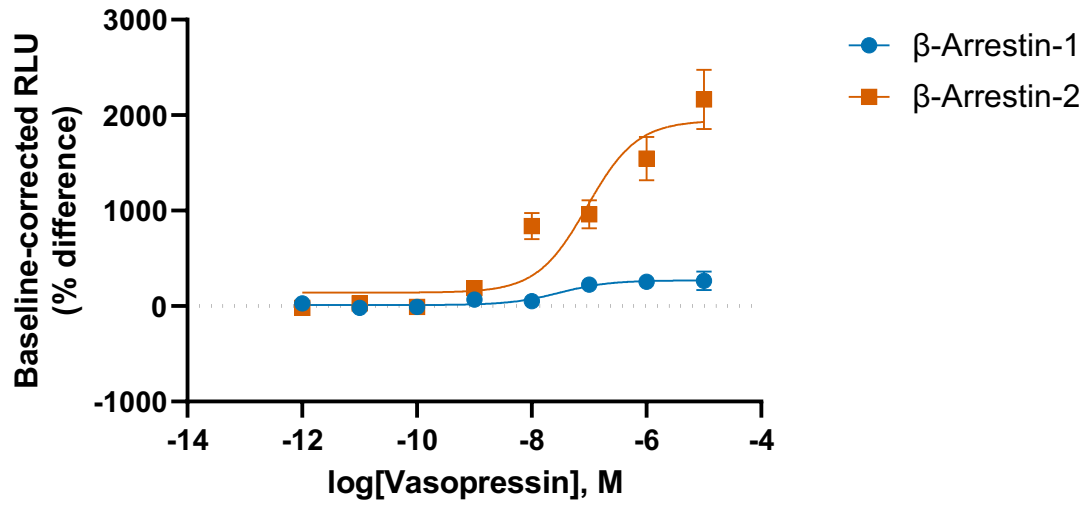
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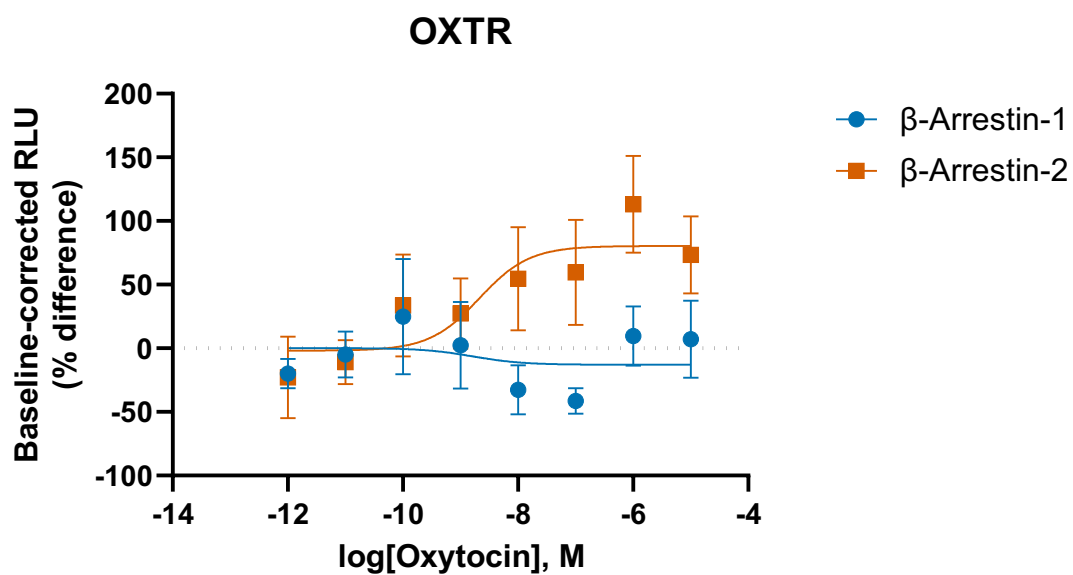
AVPR1B



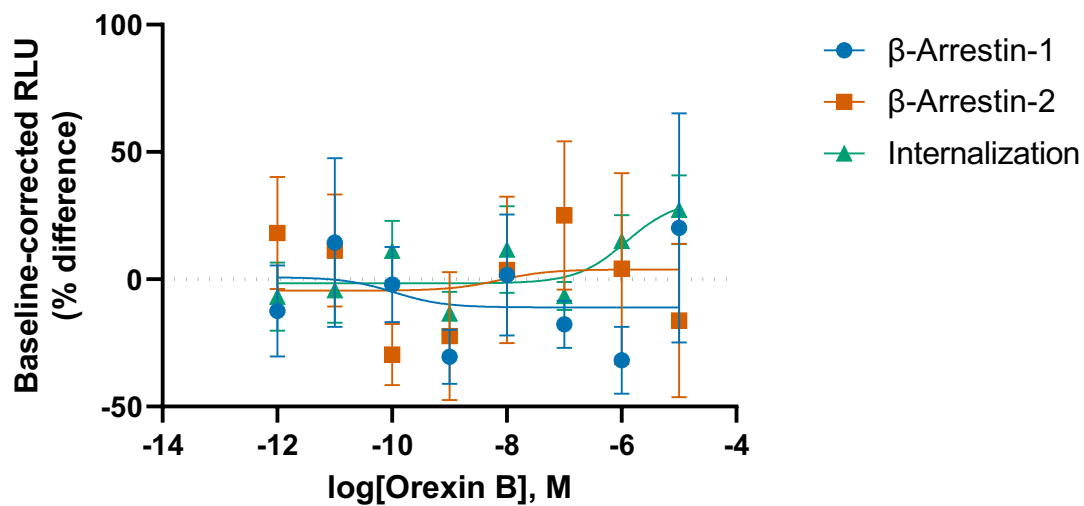
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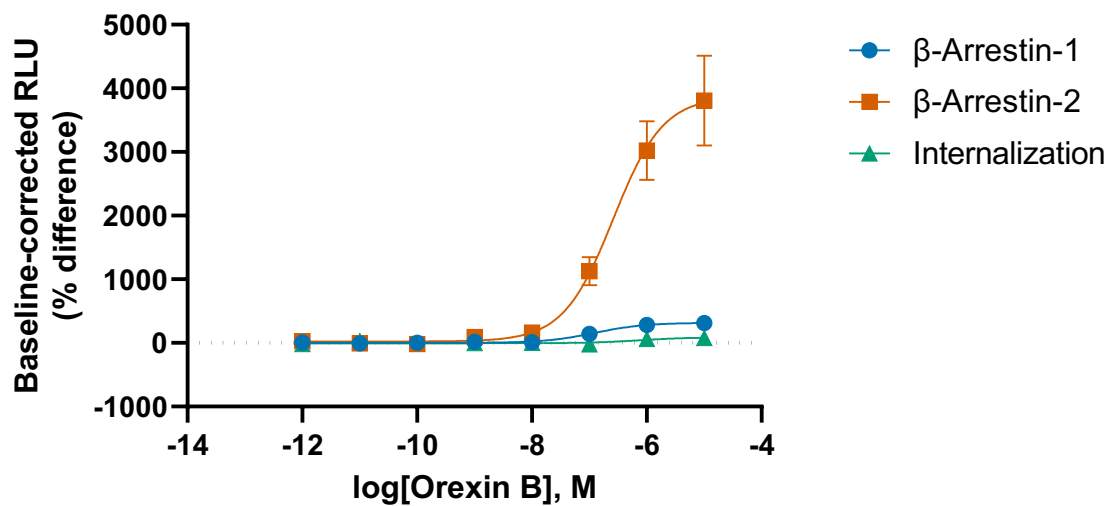
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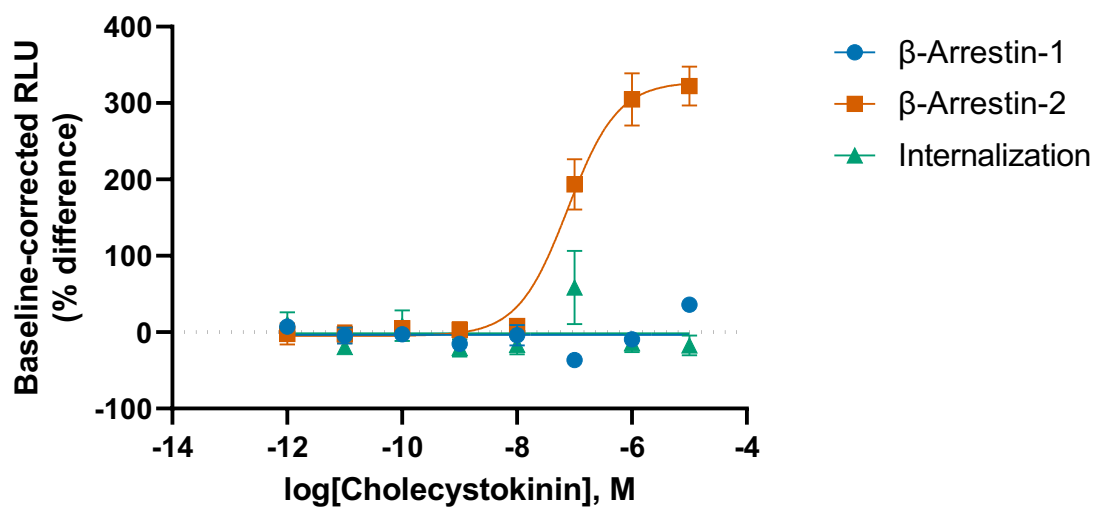
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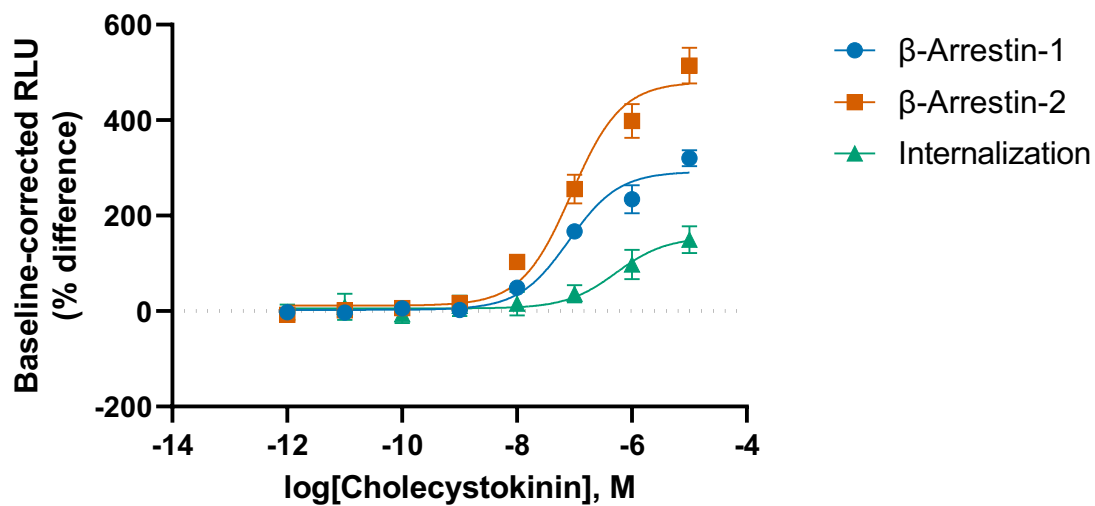
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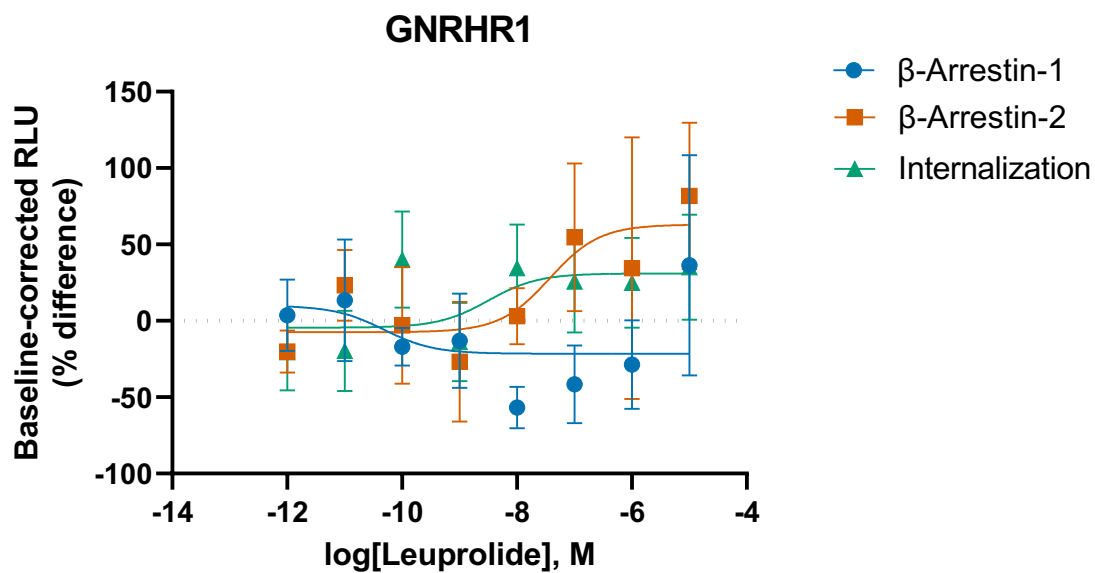
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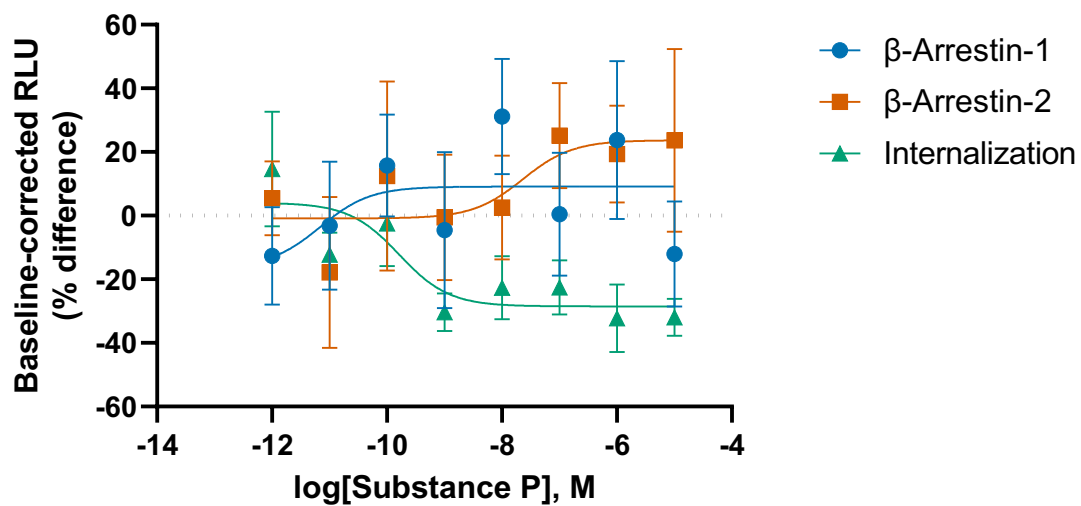
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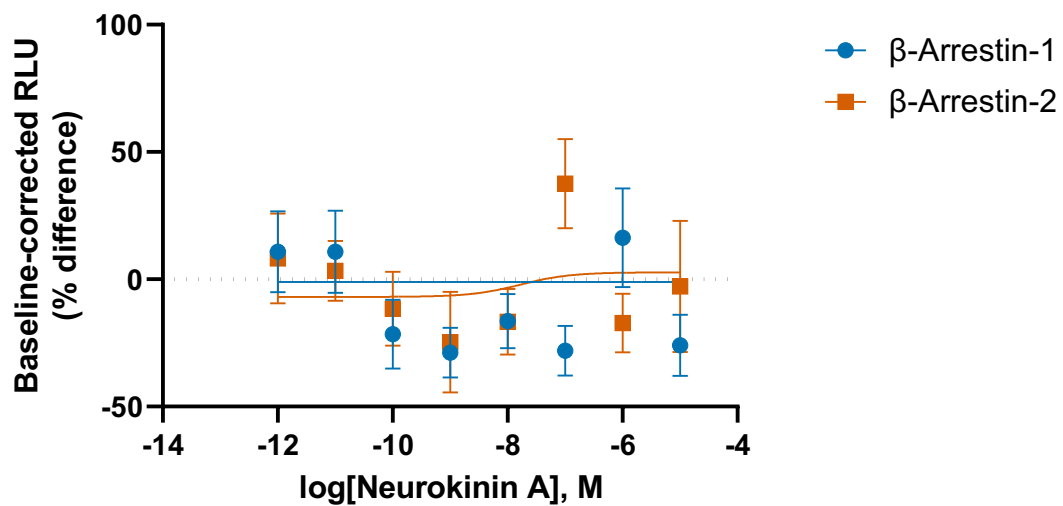
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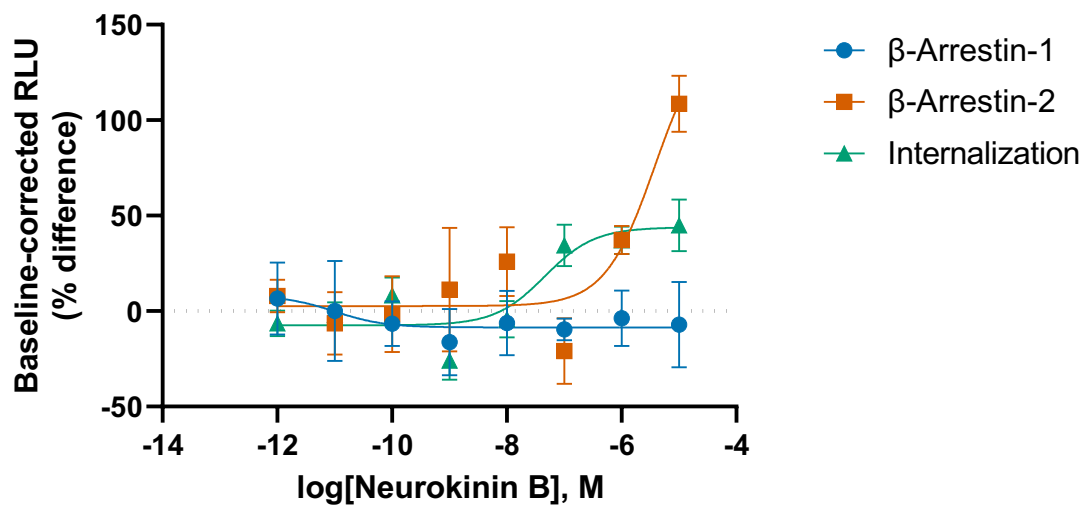
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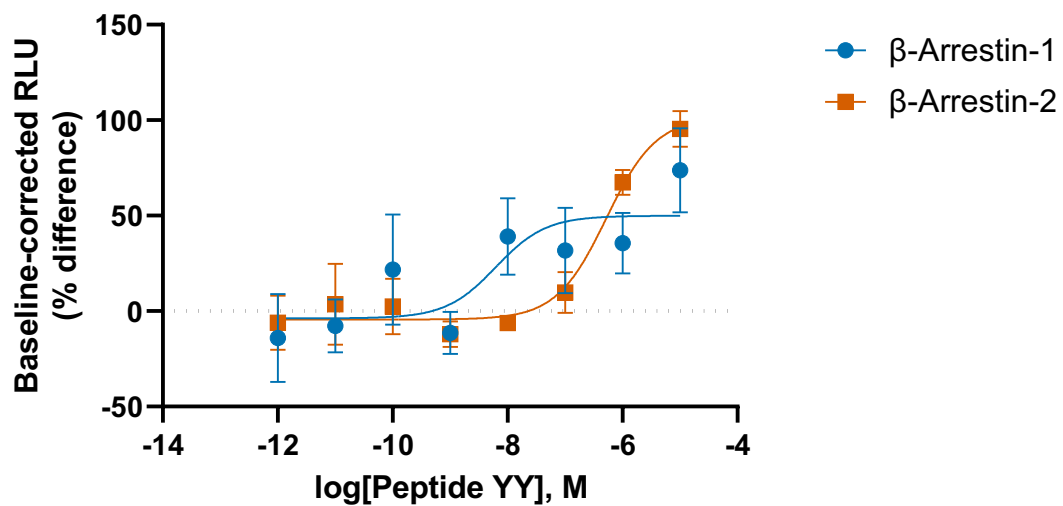
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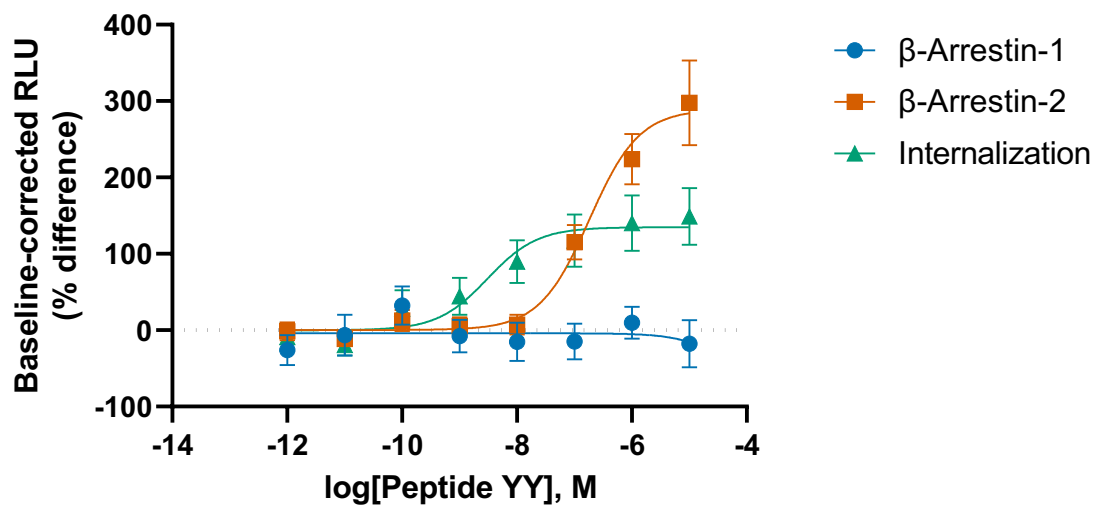
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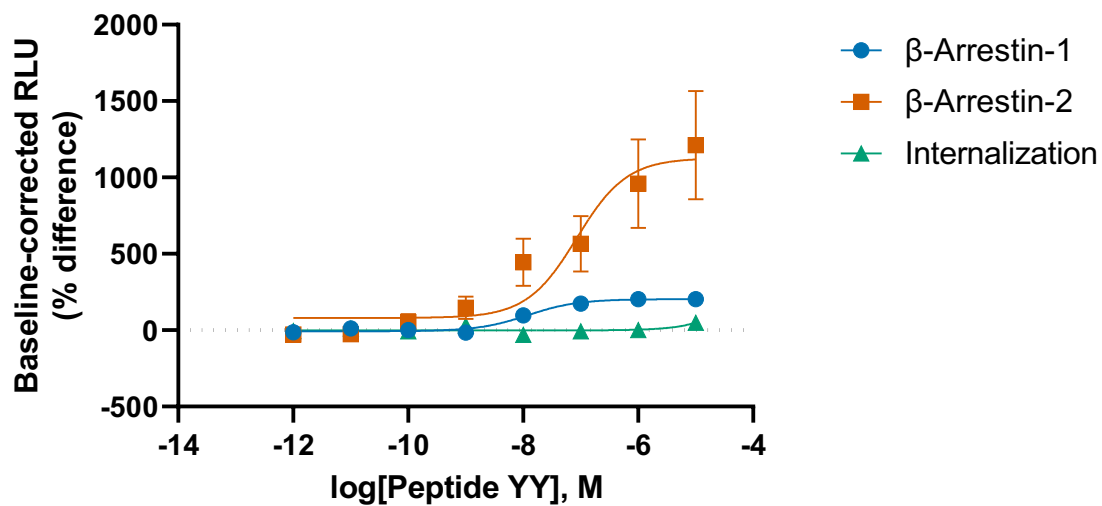
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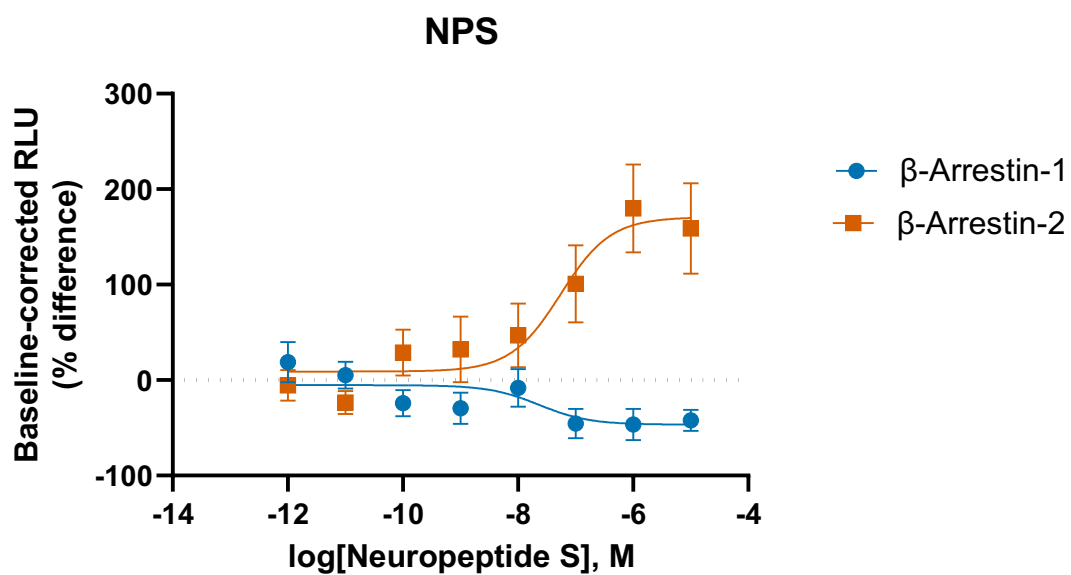
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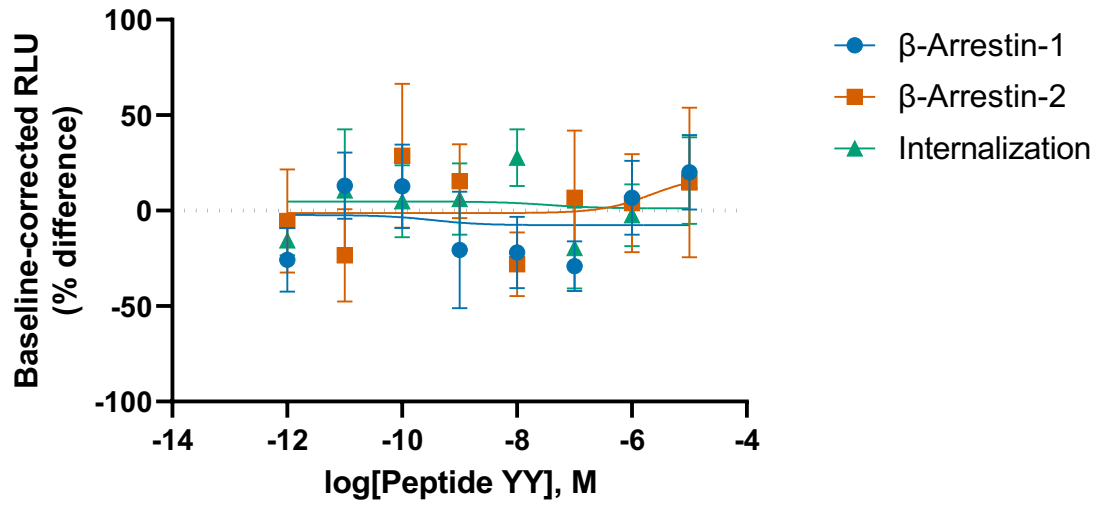
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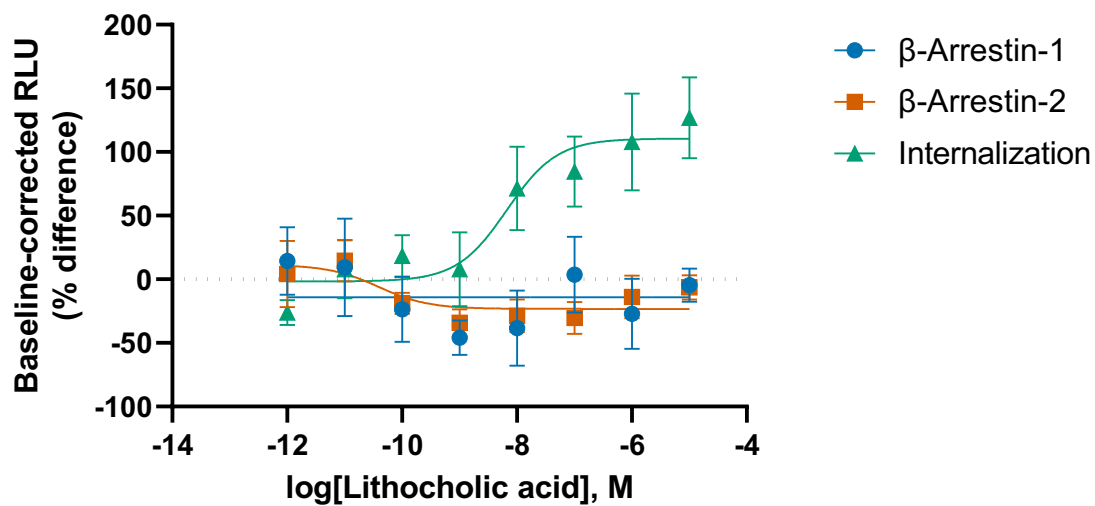
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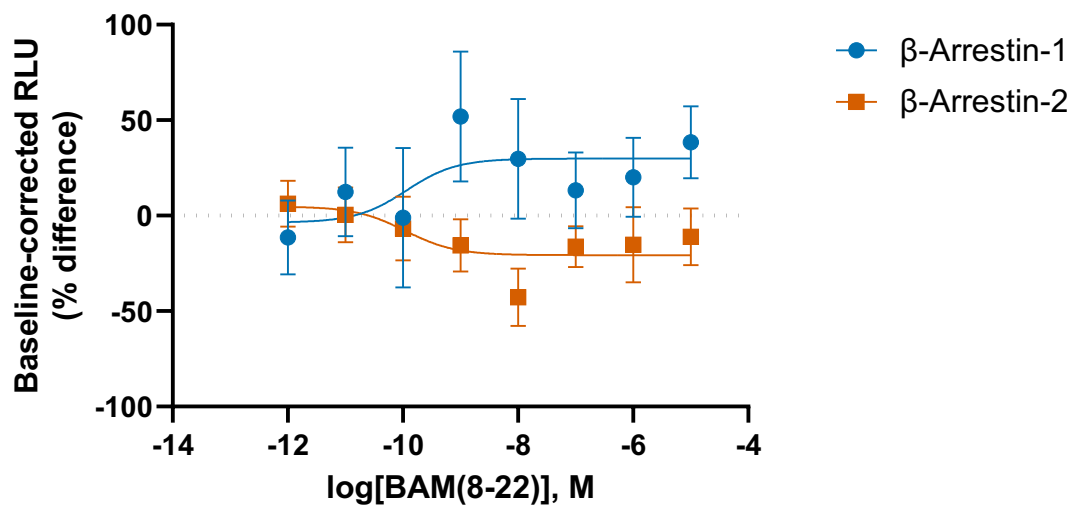
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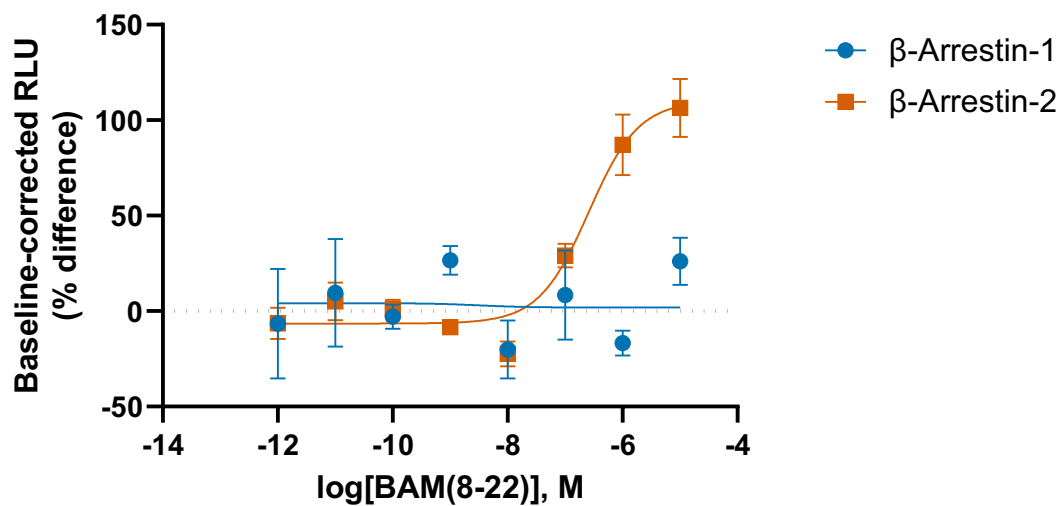
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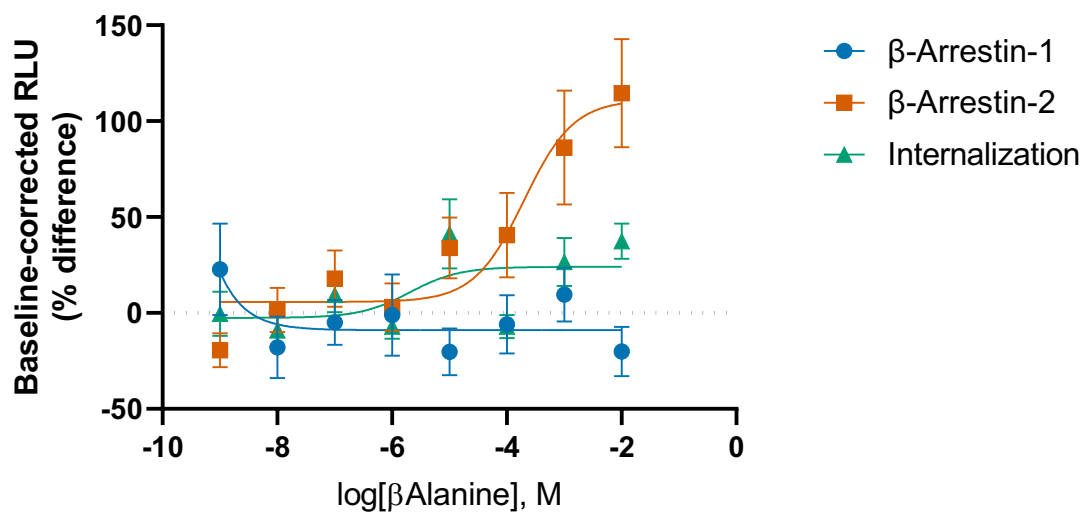
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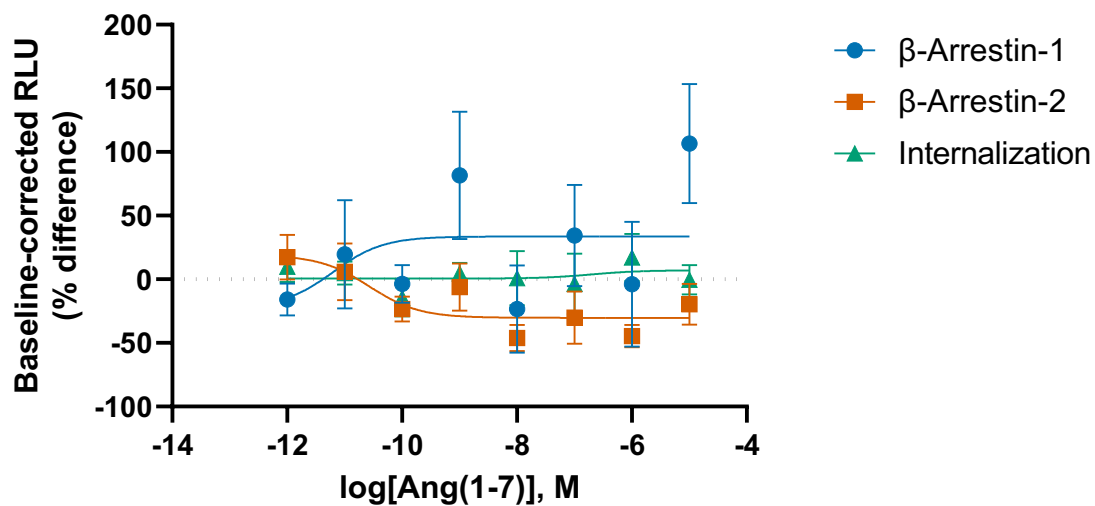
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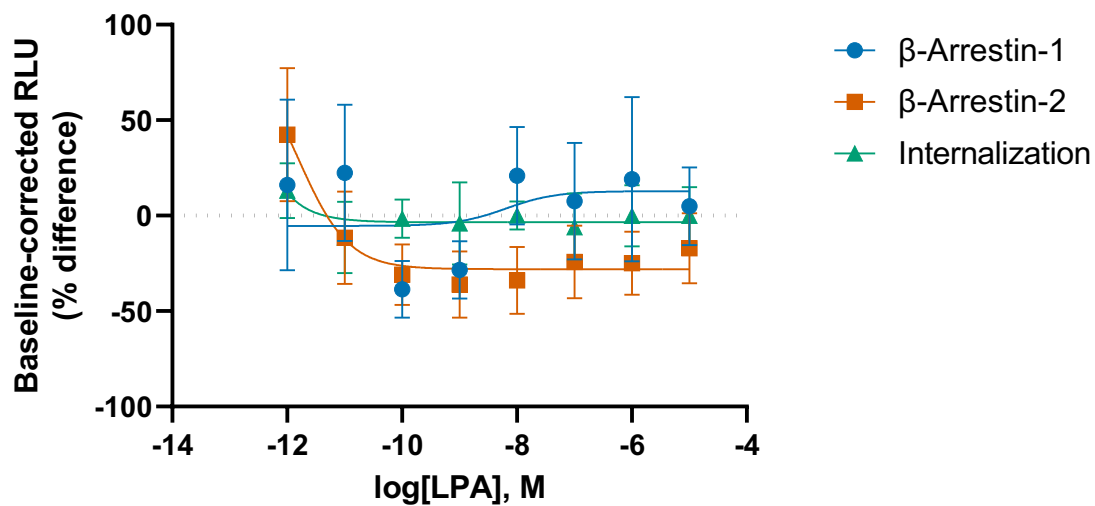
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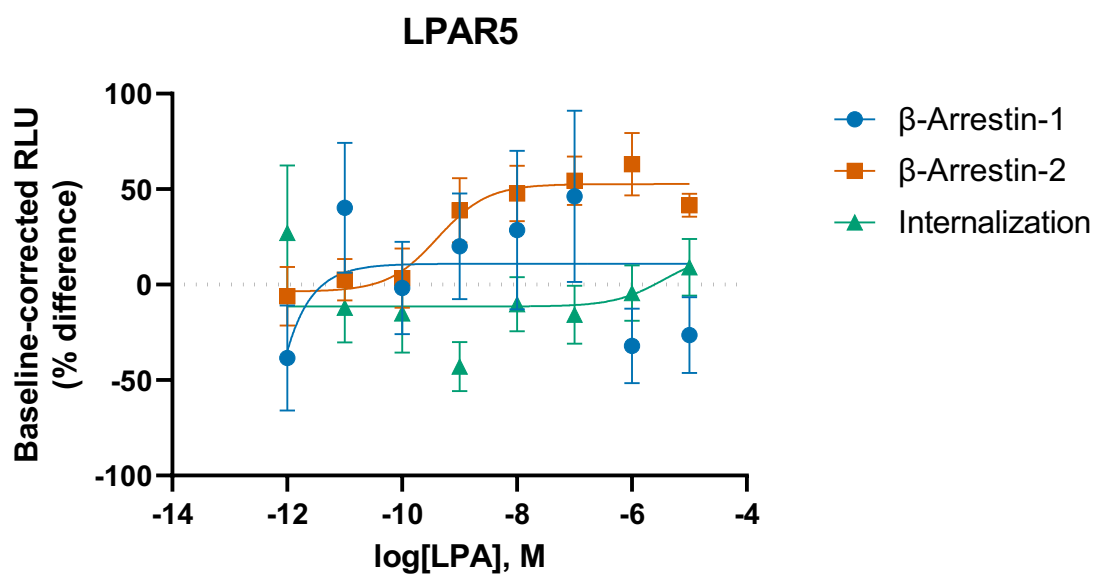
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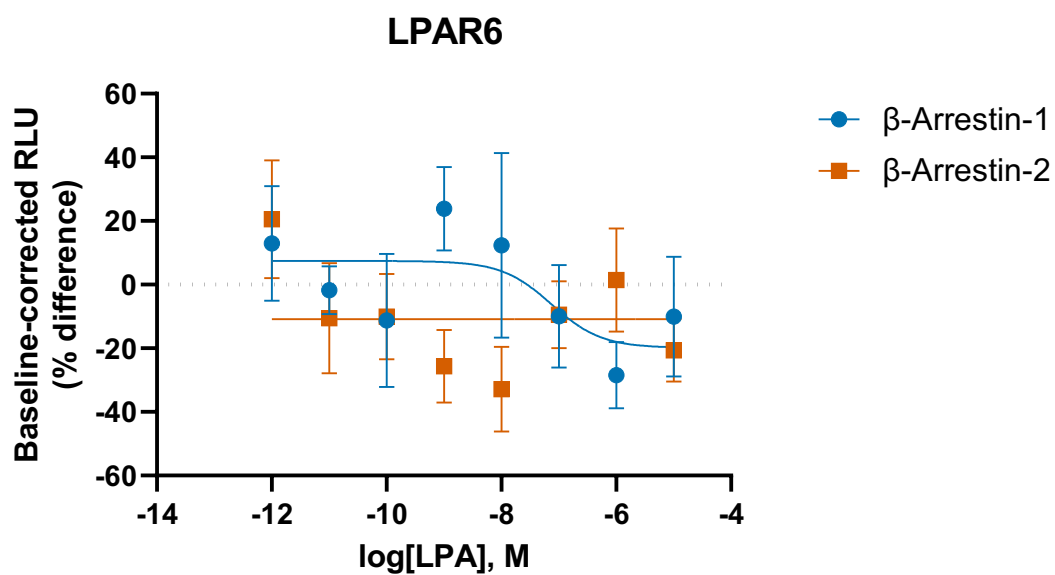
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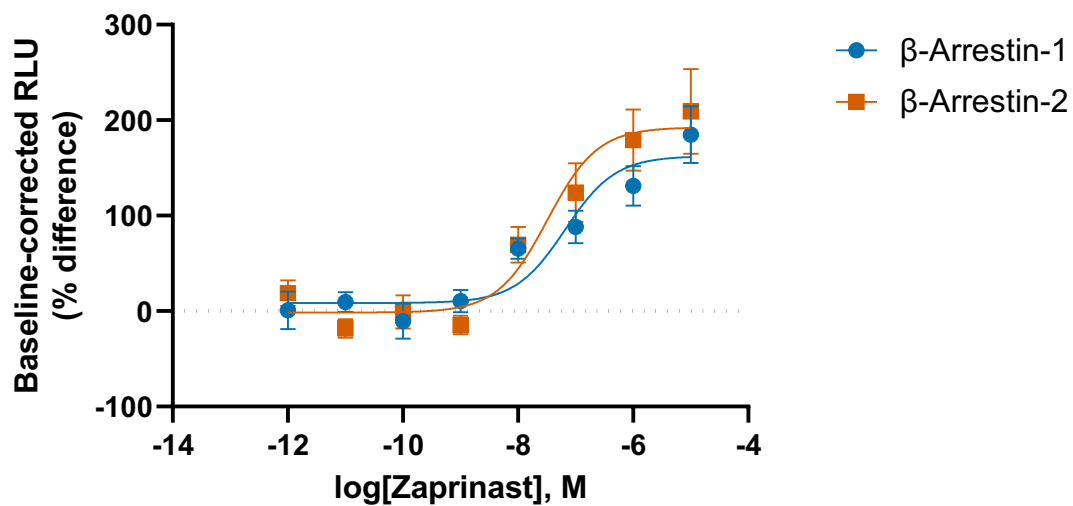
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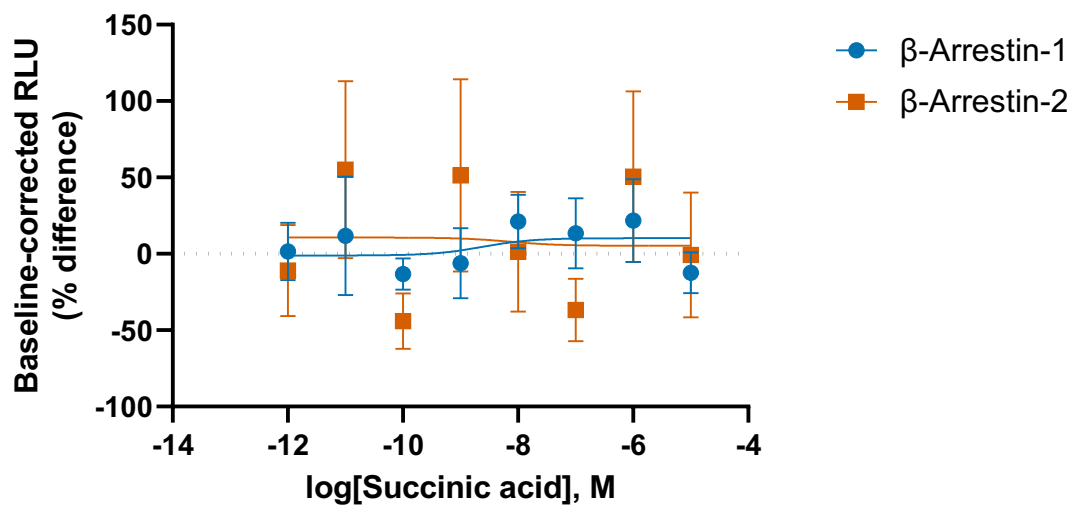
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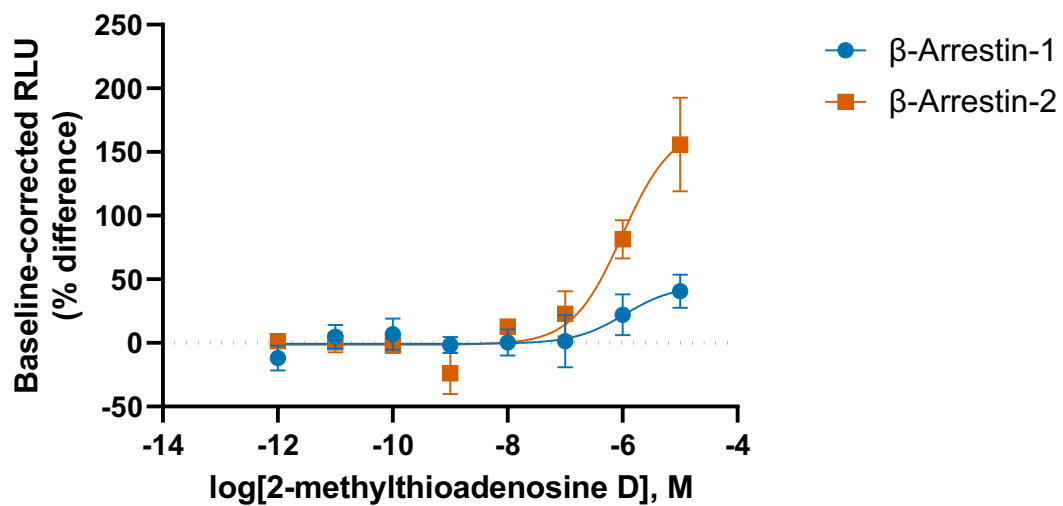
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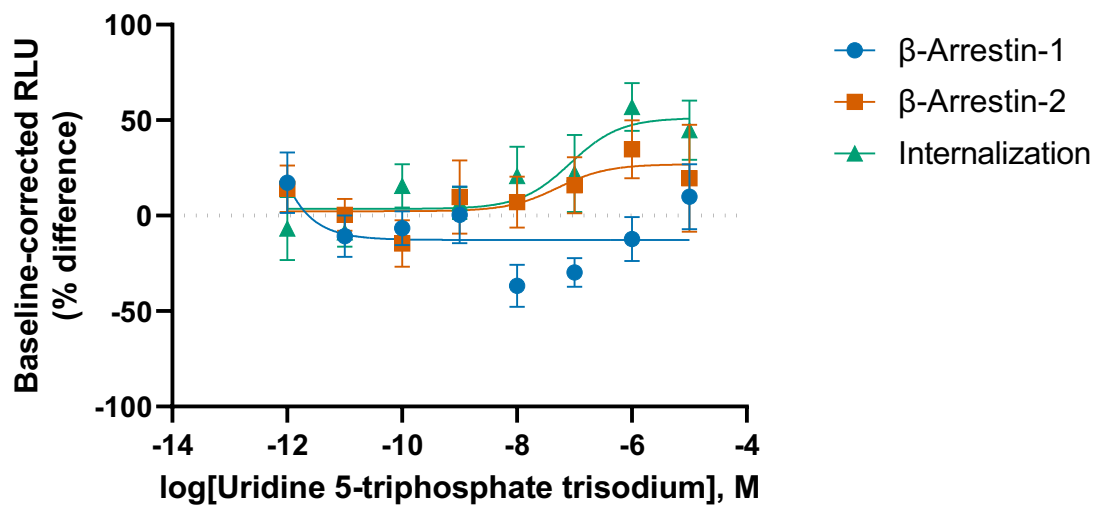
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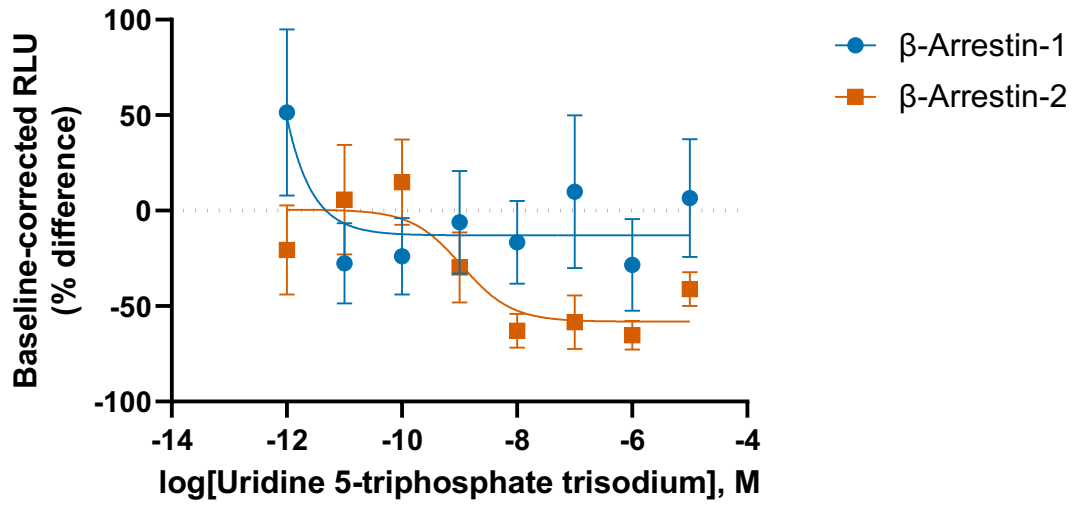
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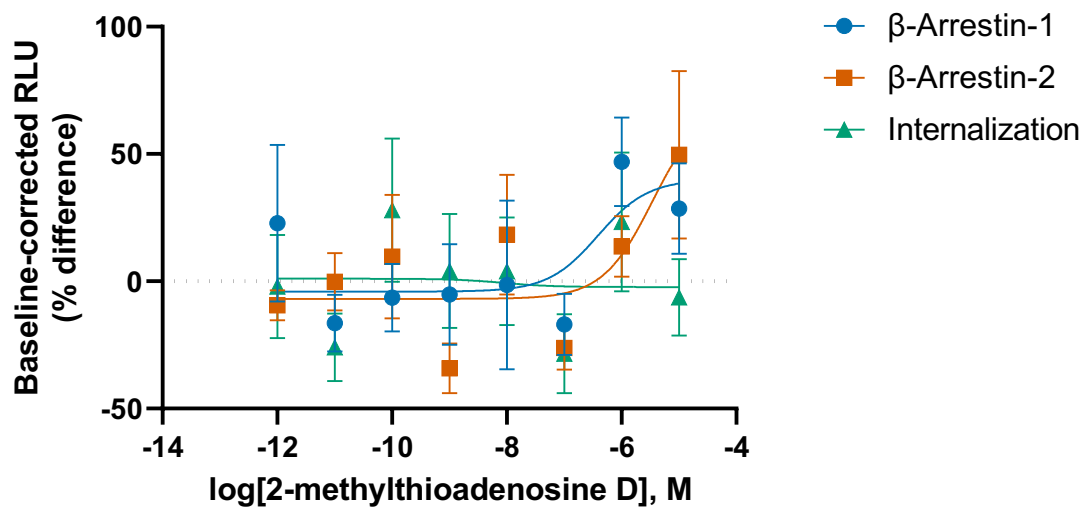
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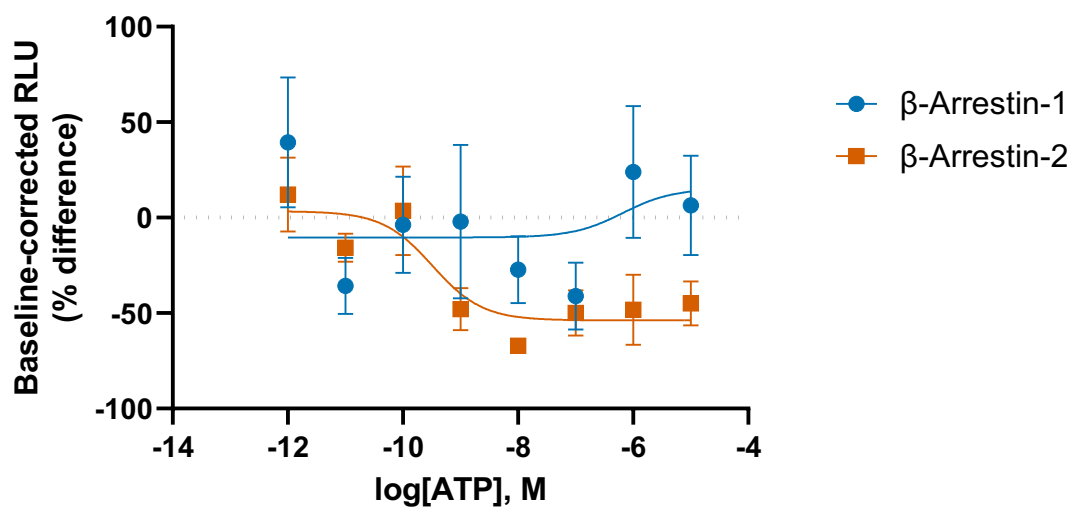


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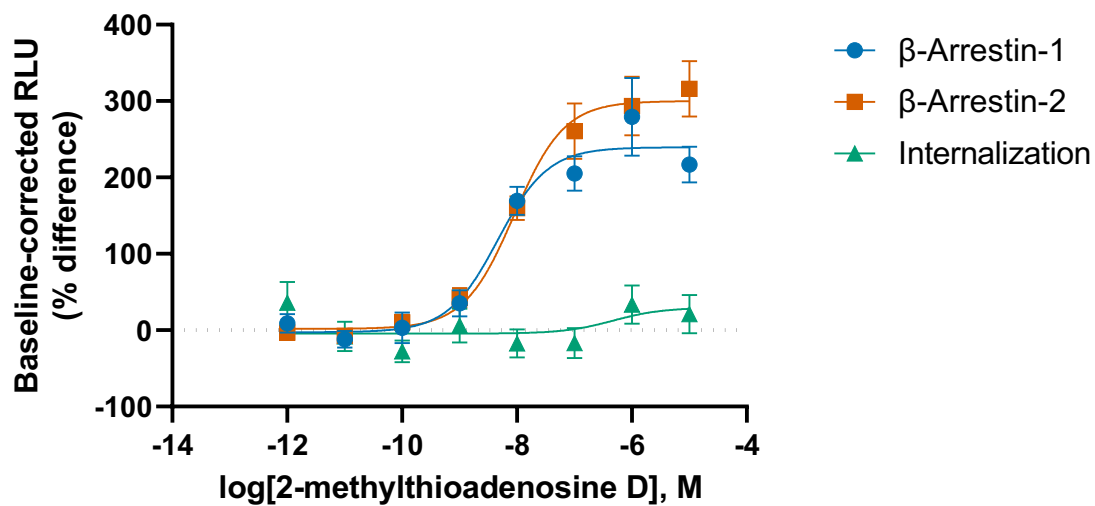


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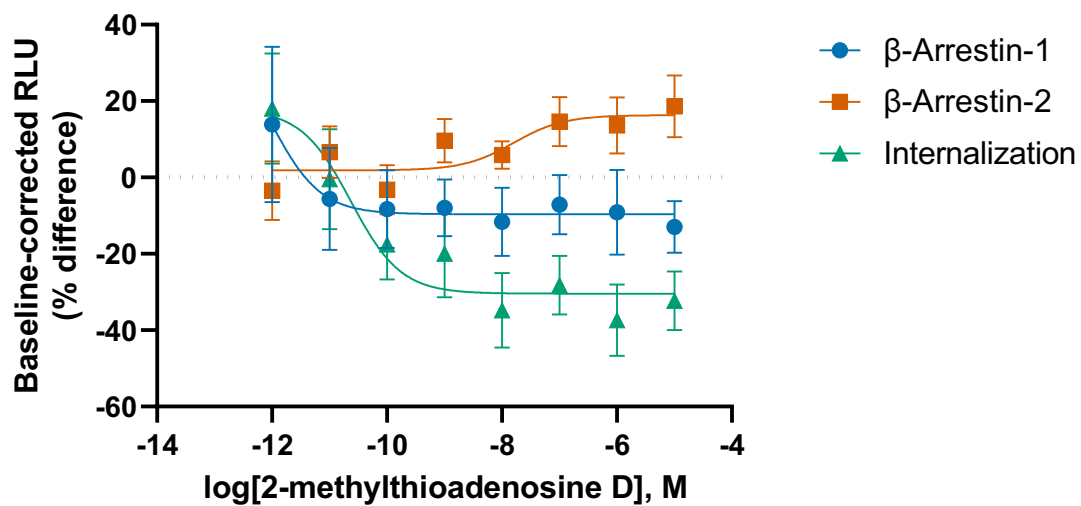
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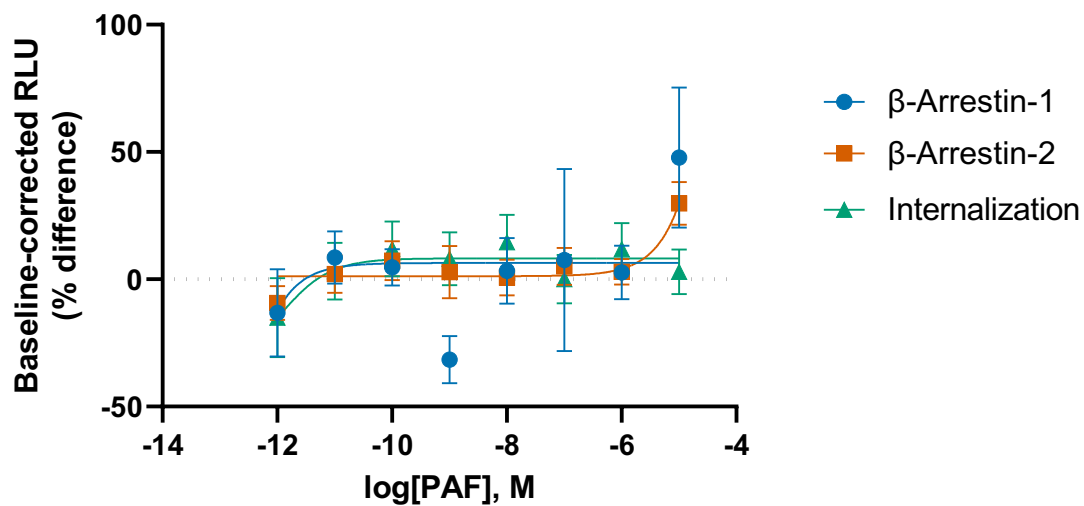
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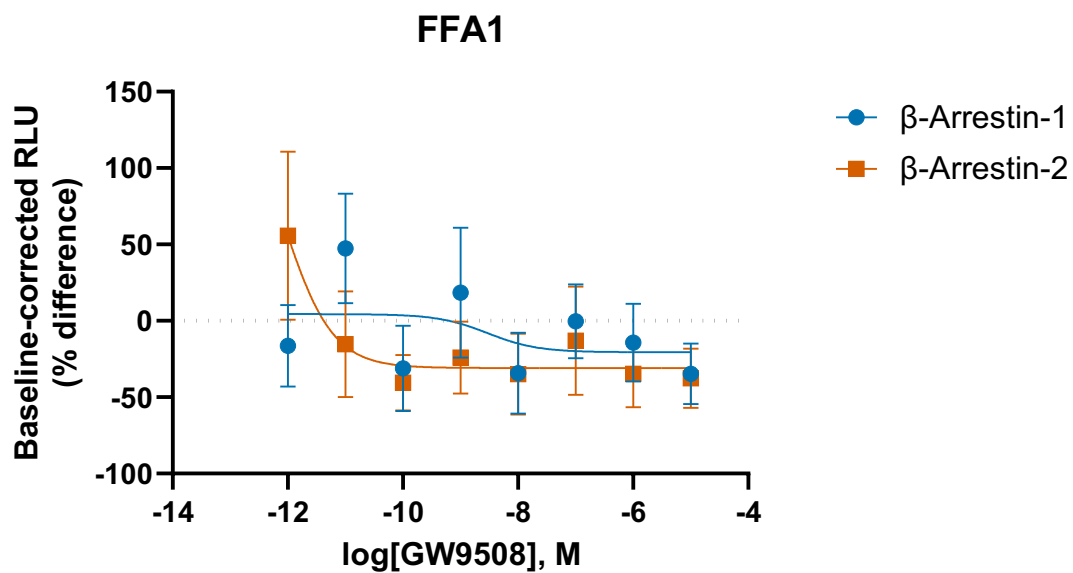


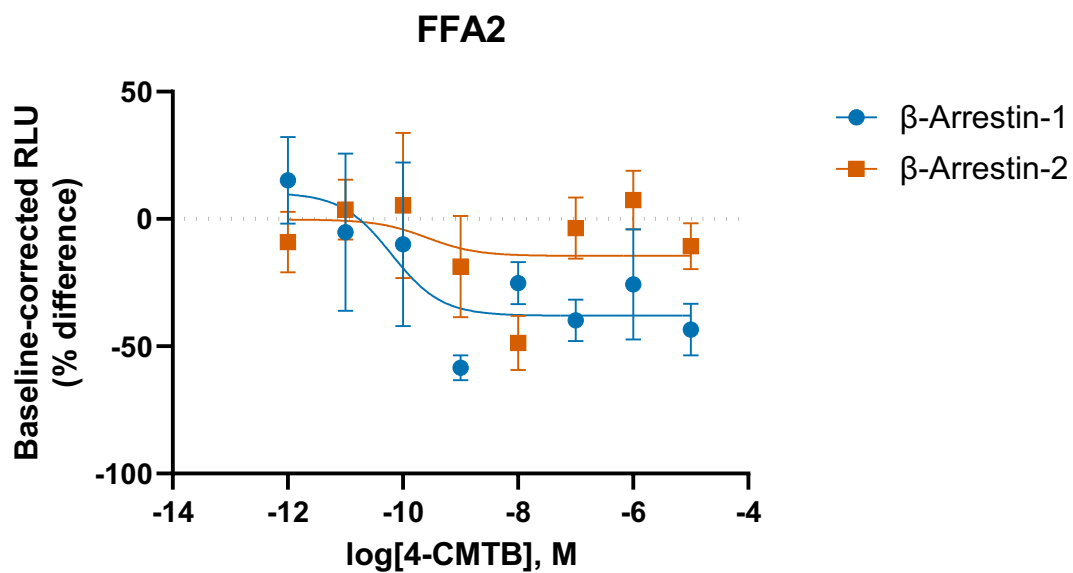
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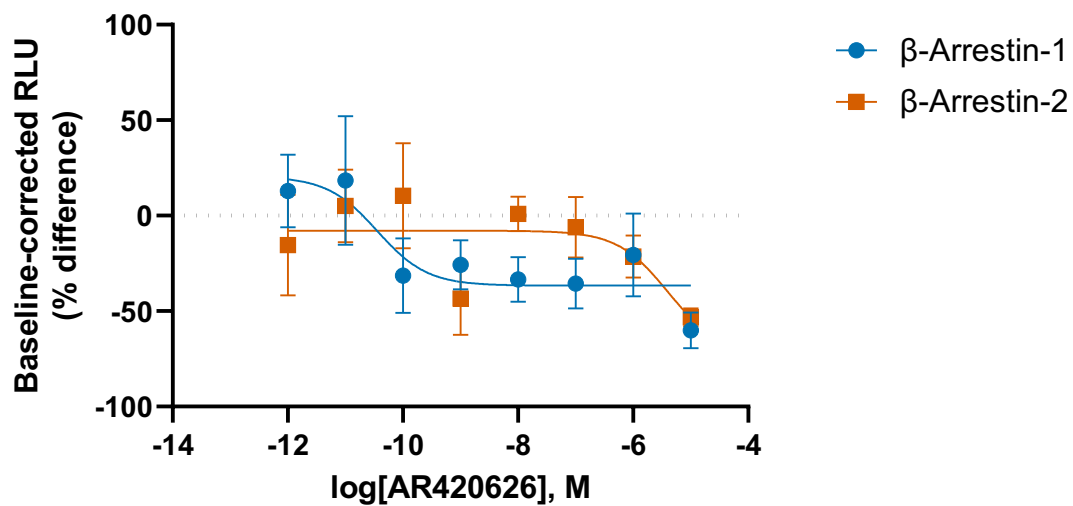
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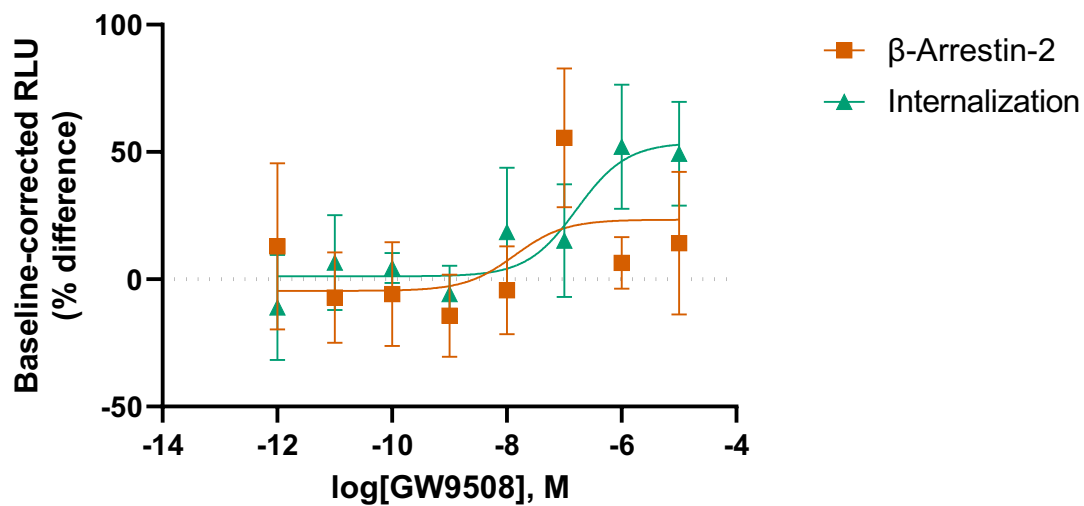




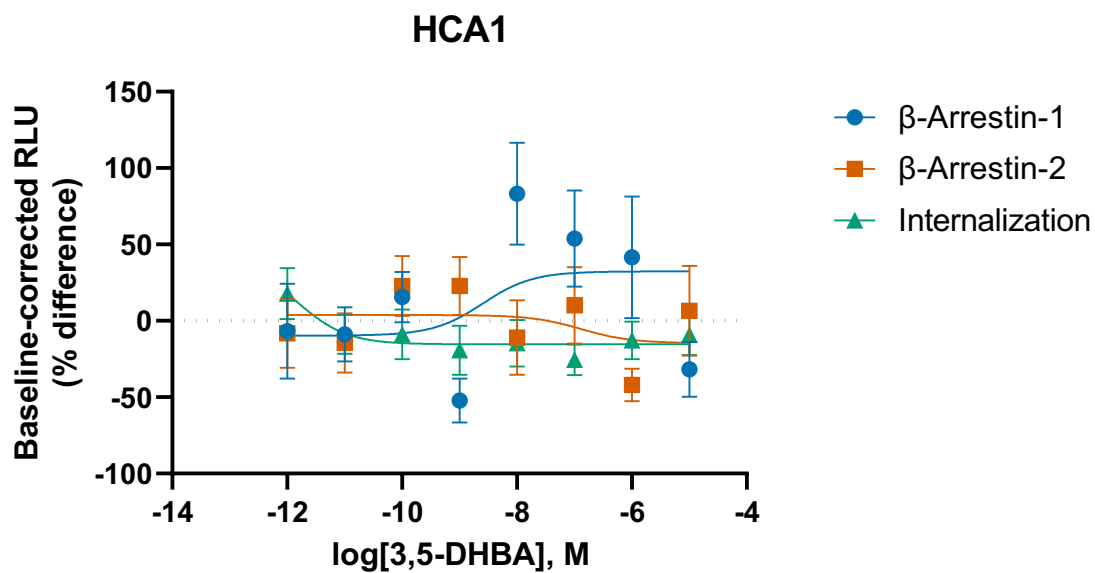
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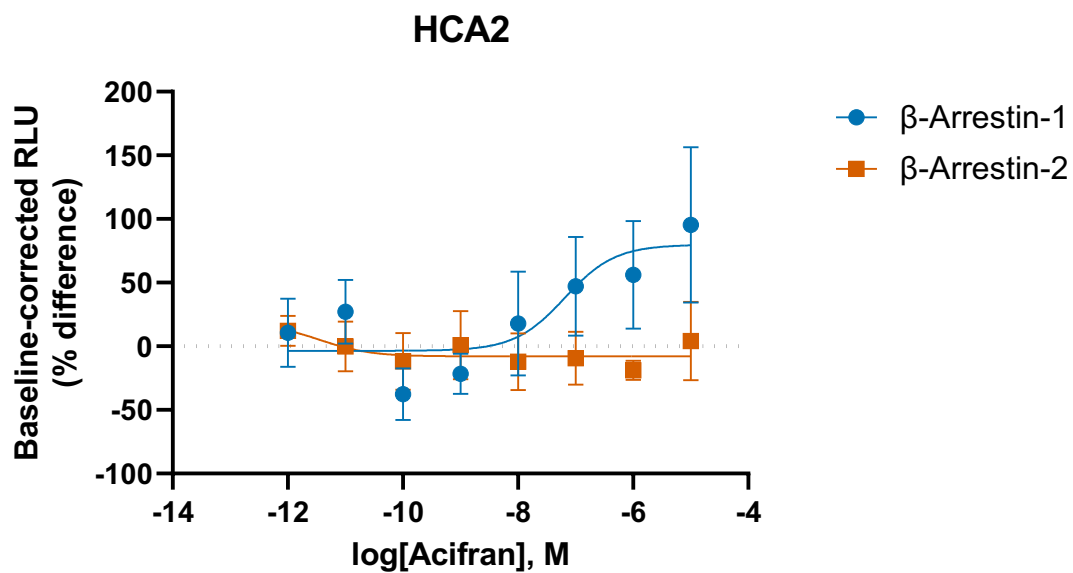
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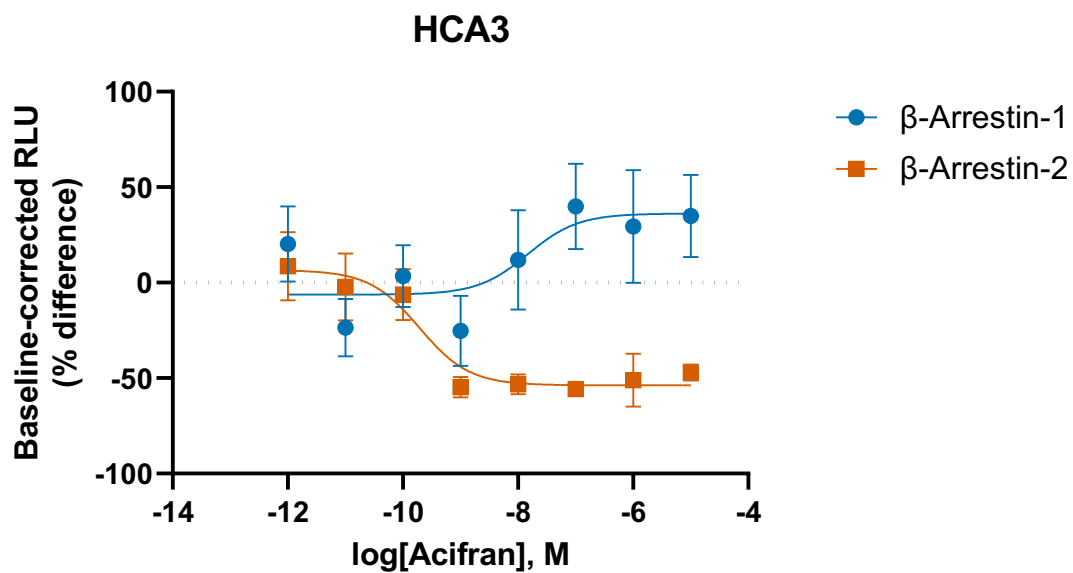


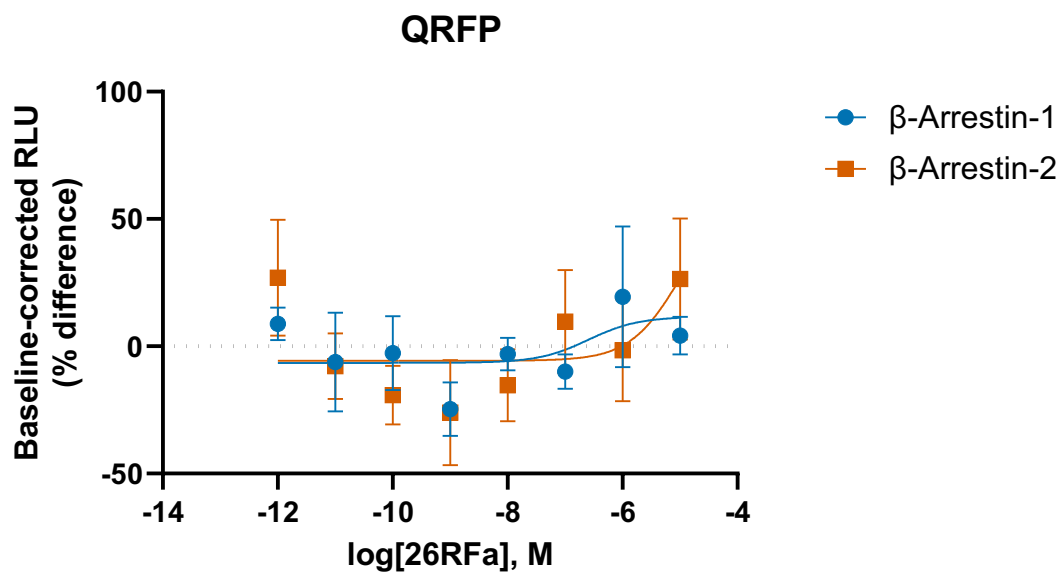
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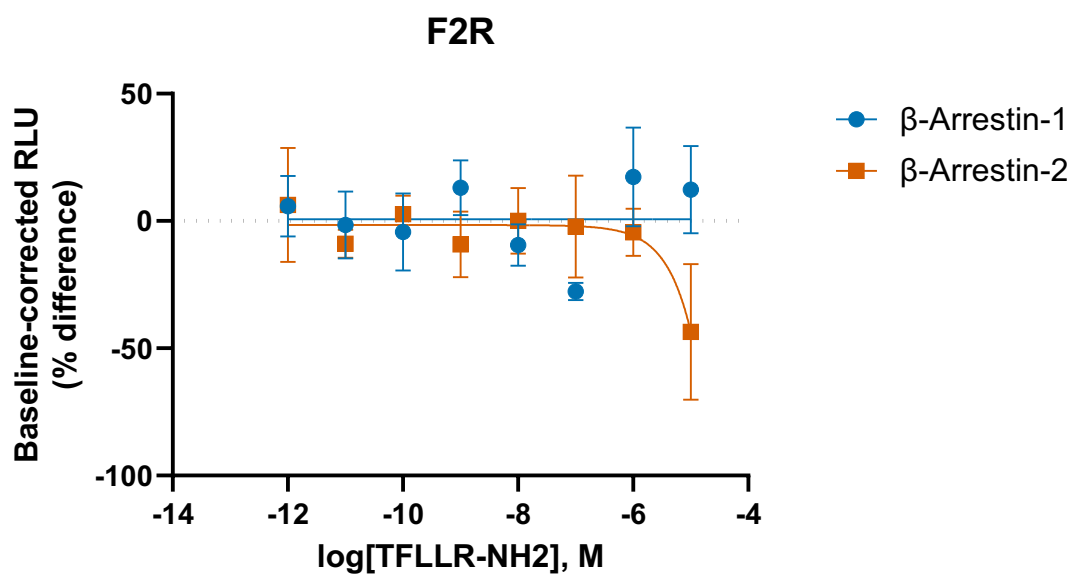
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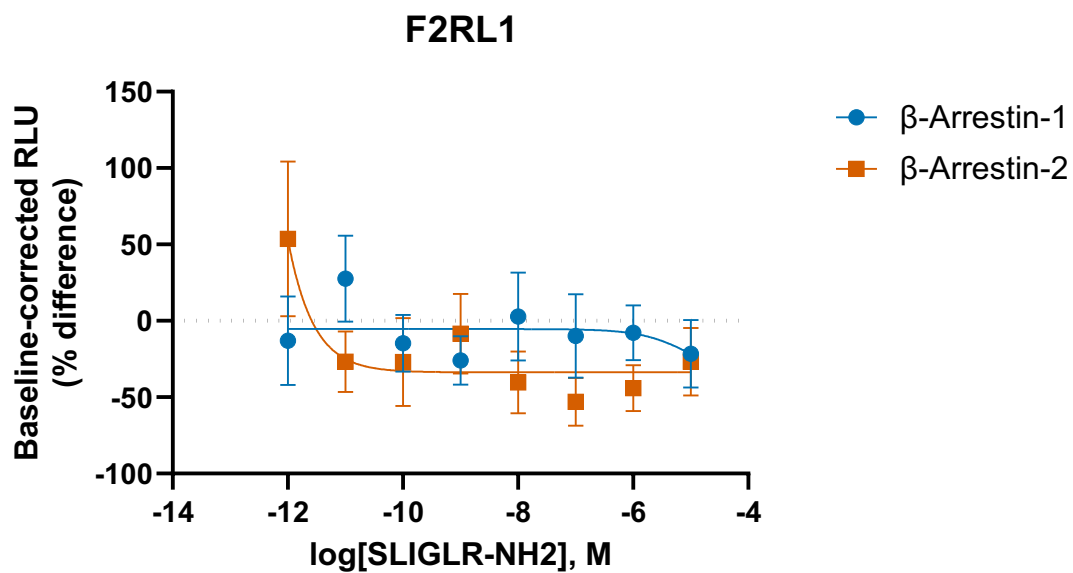




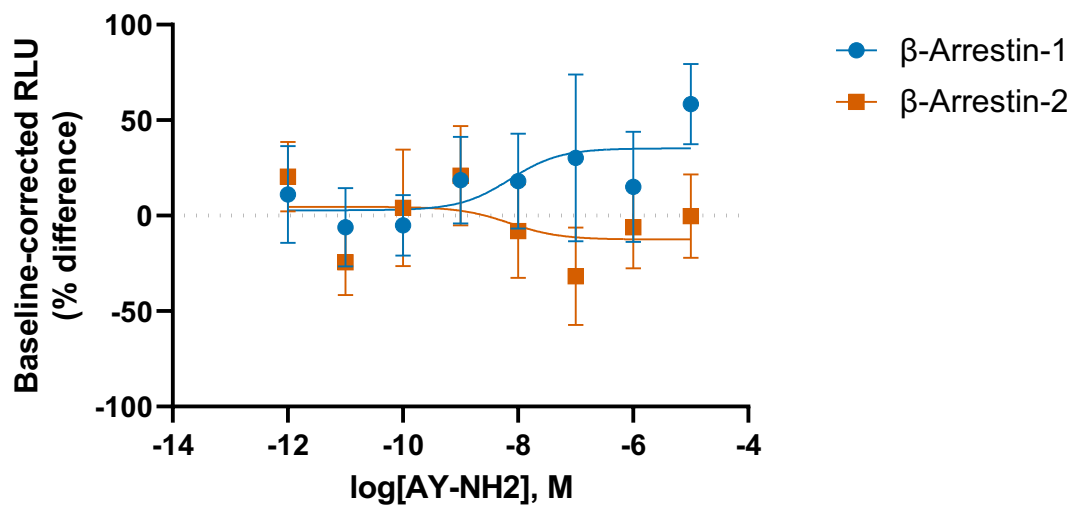
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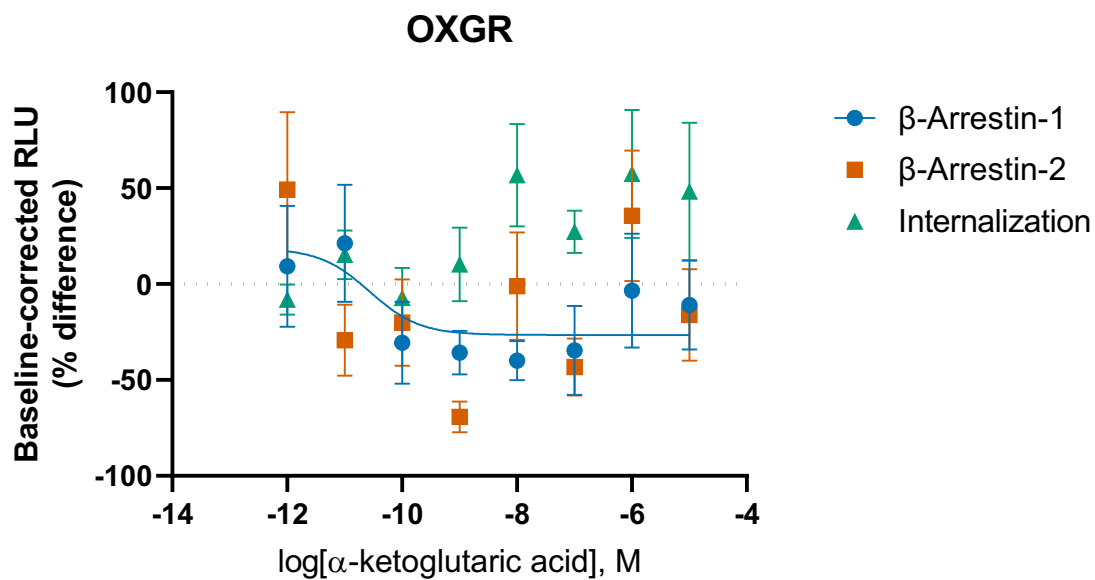


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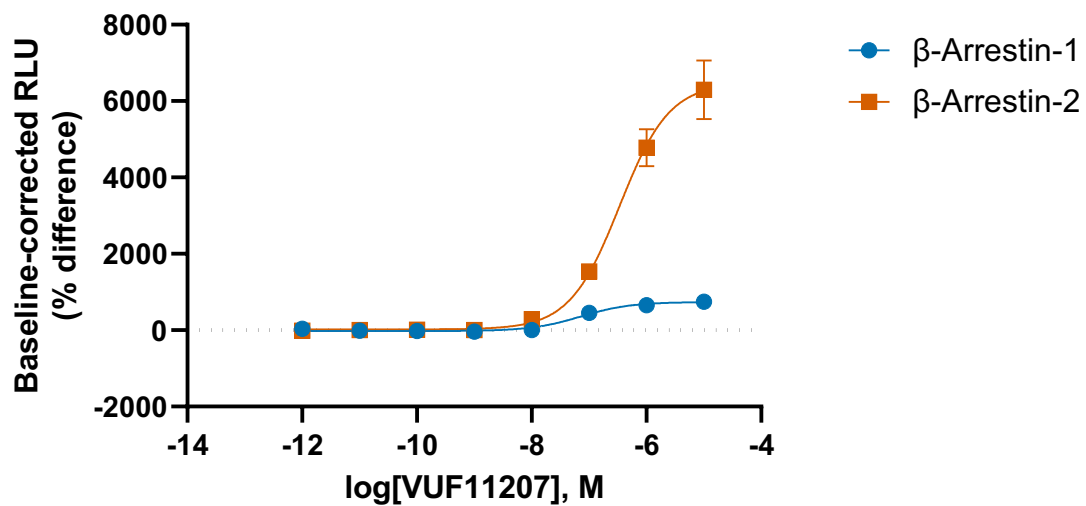


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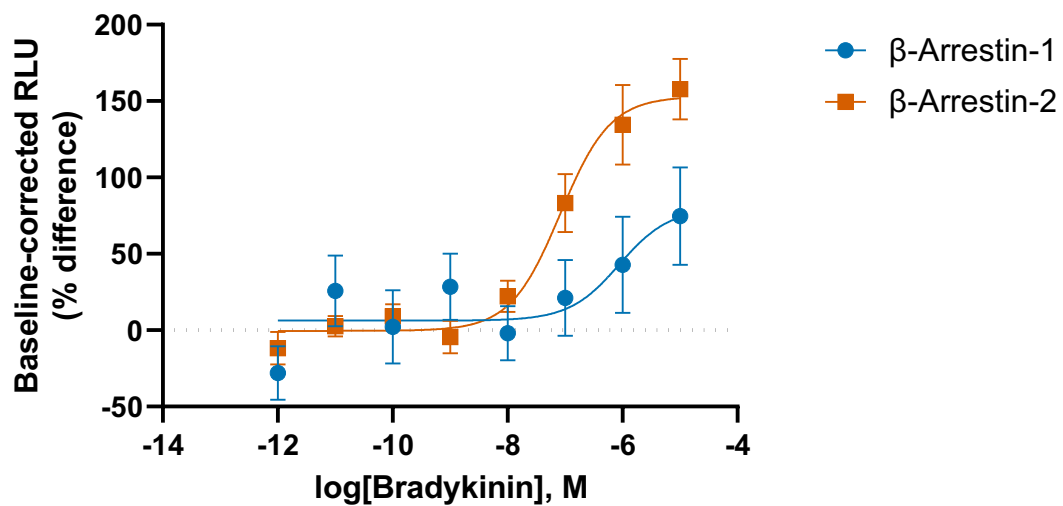




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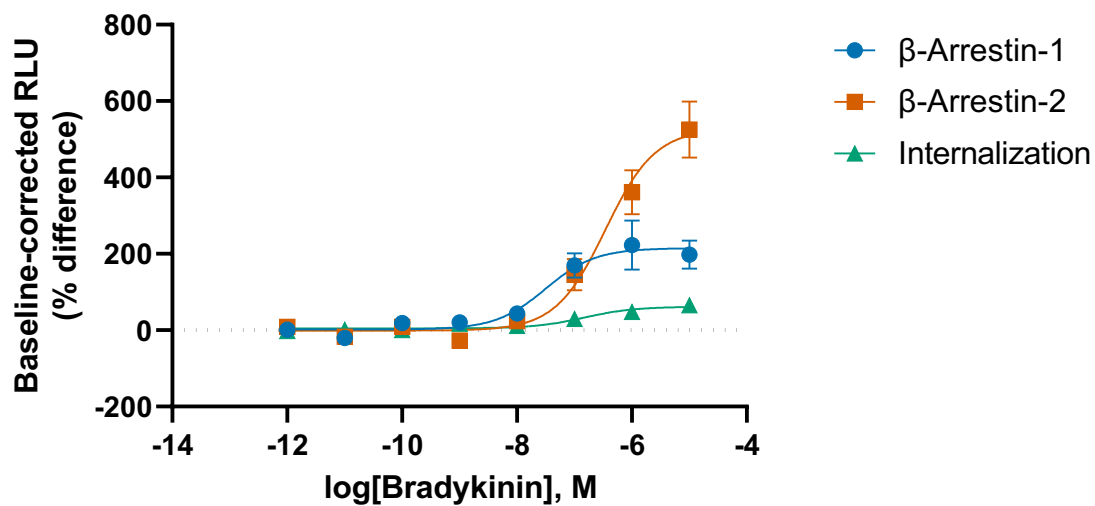


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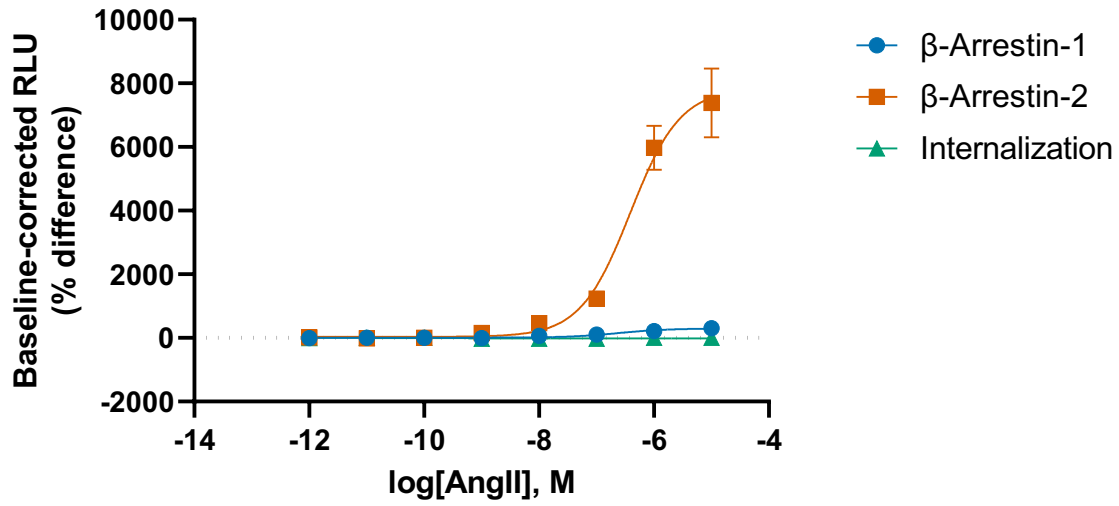


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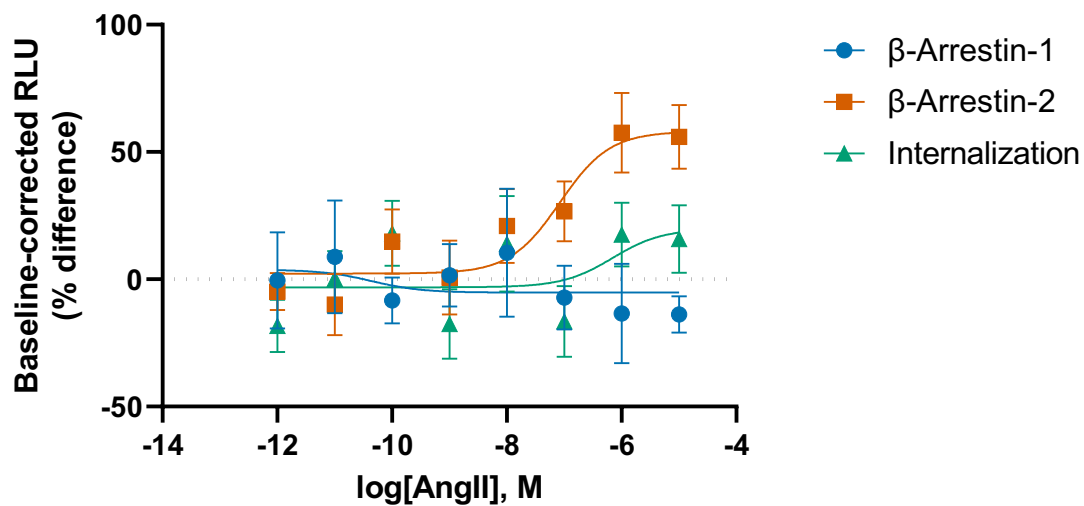
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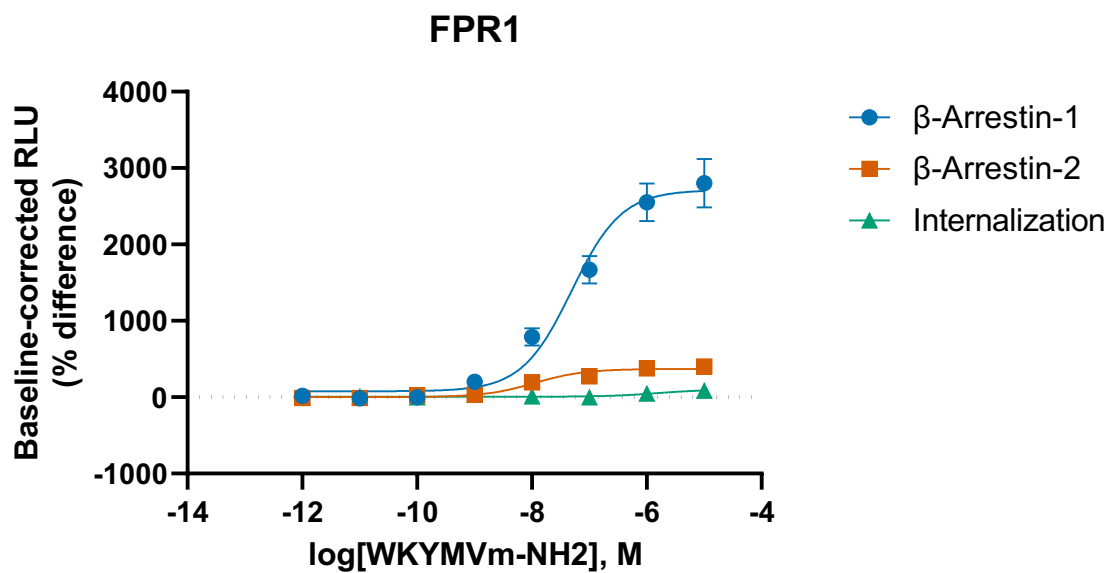
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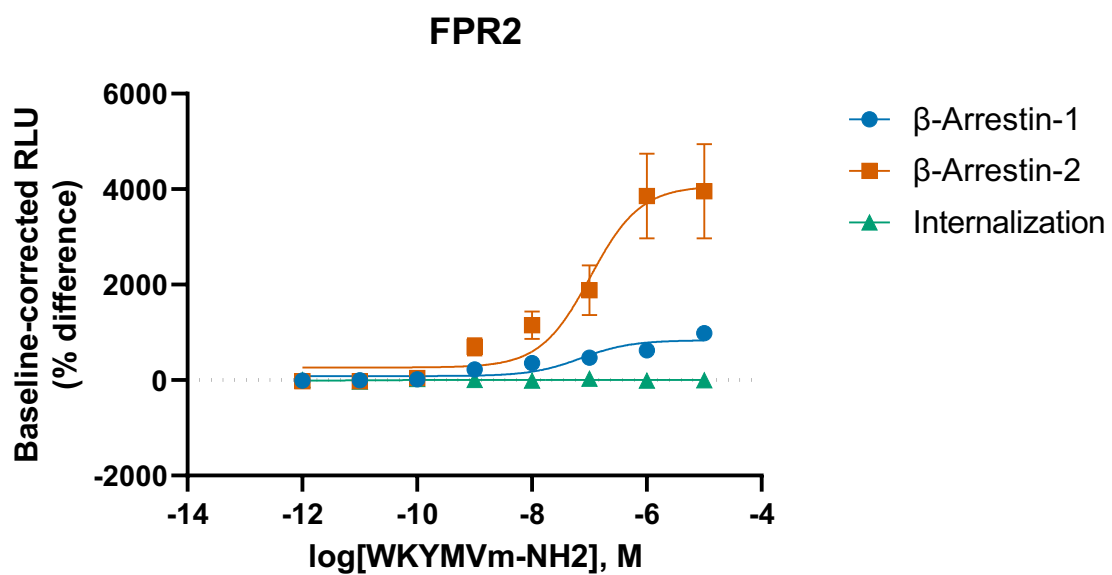
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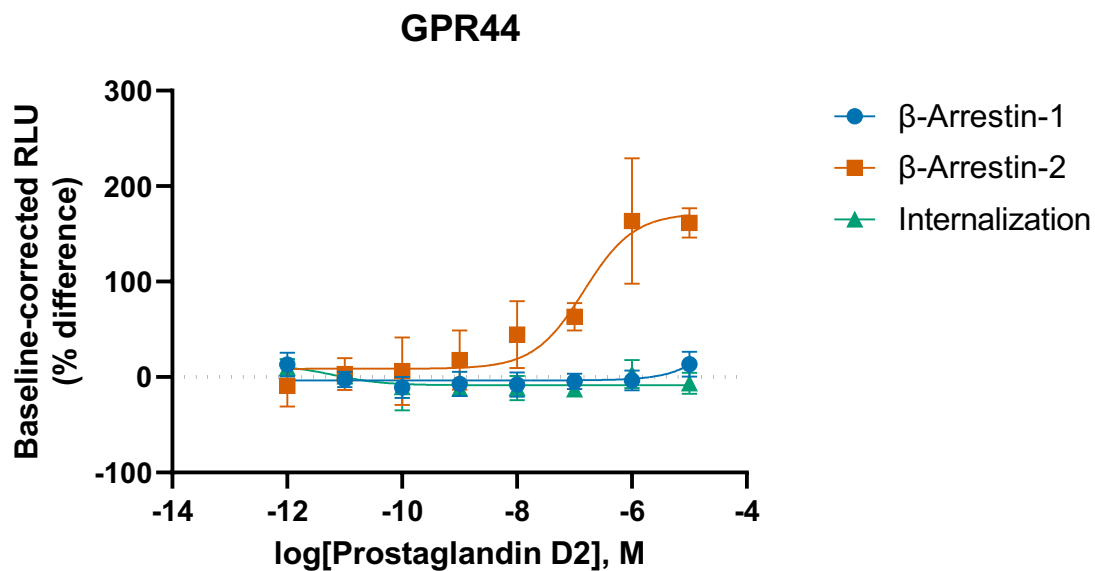


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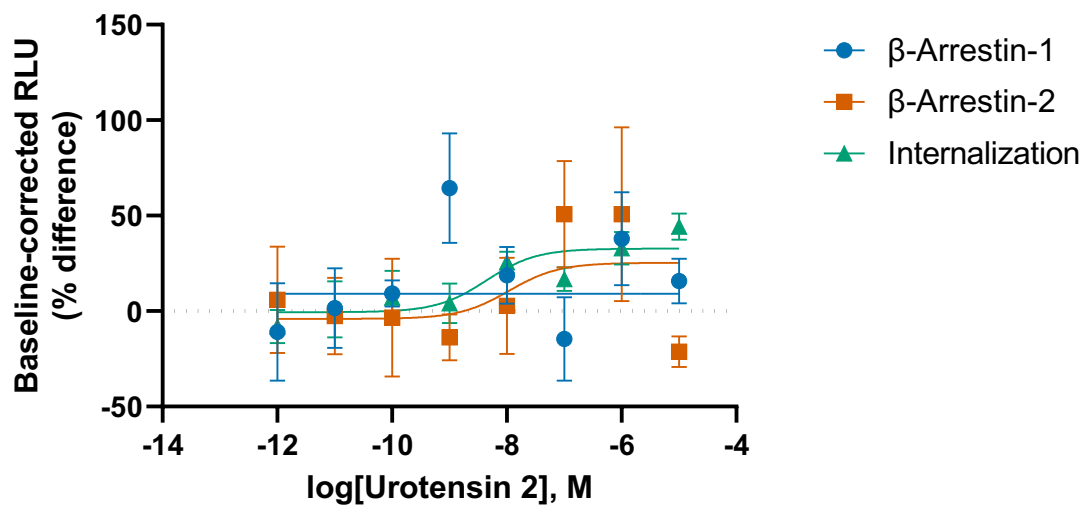


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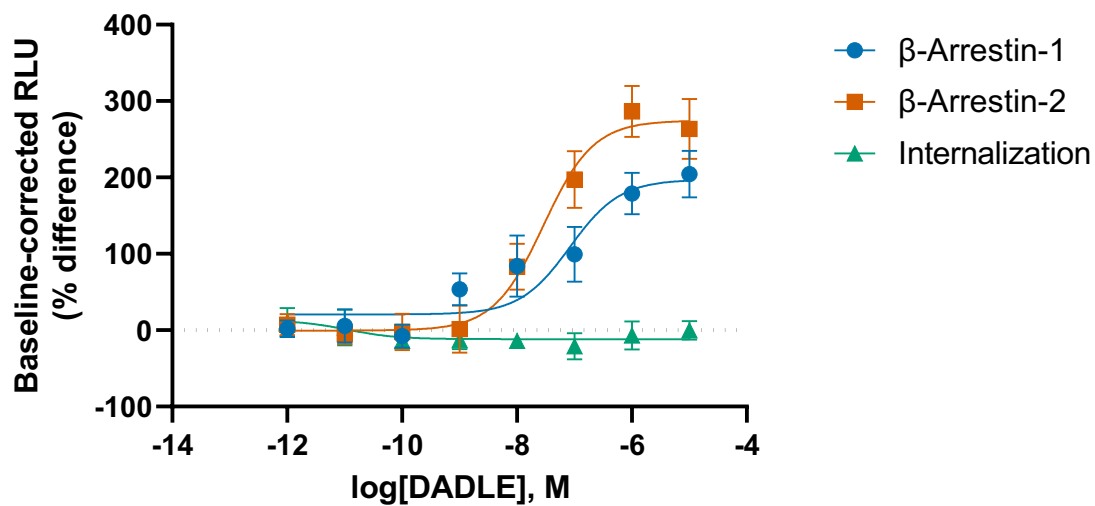


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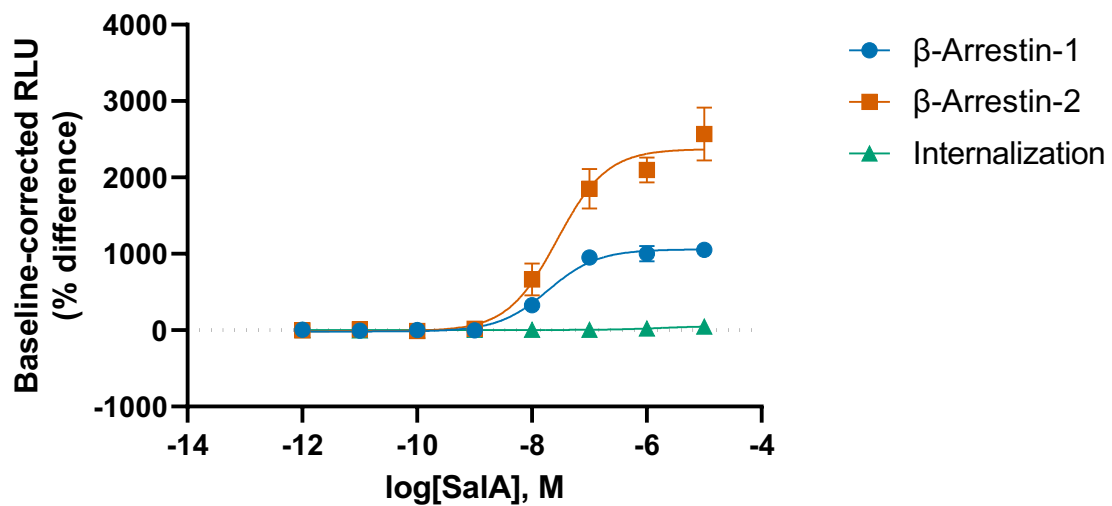


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OPRD1

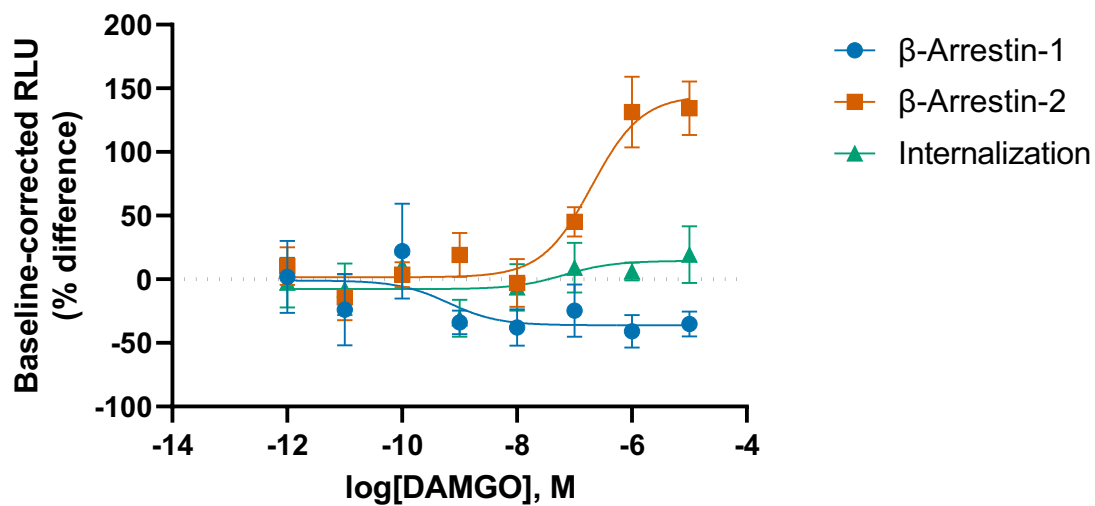


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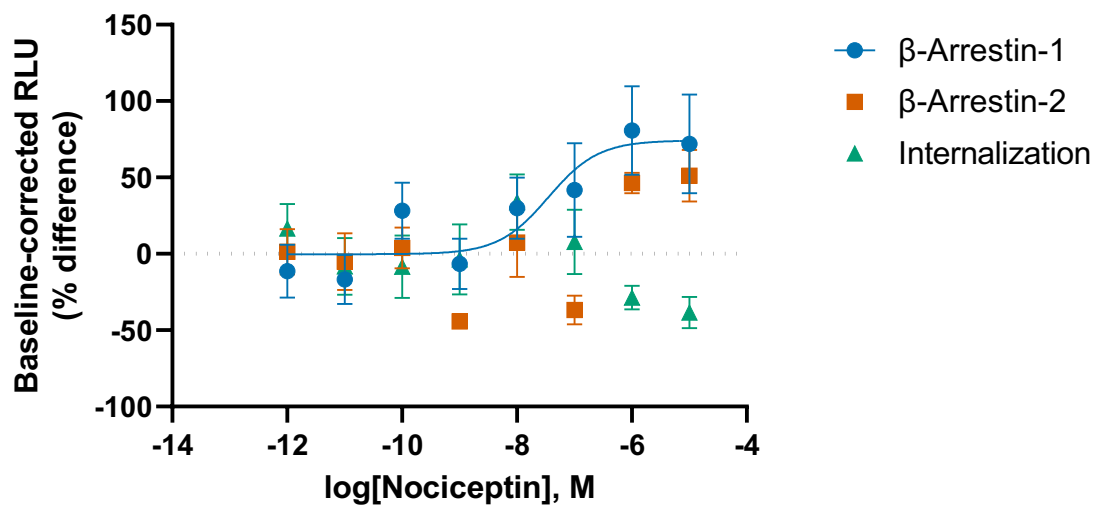
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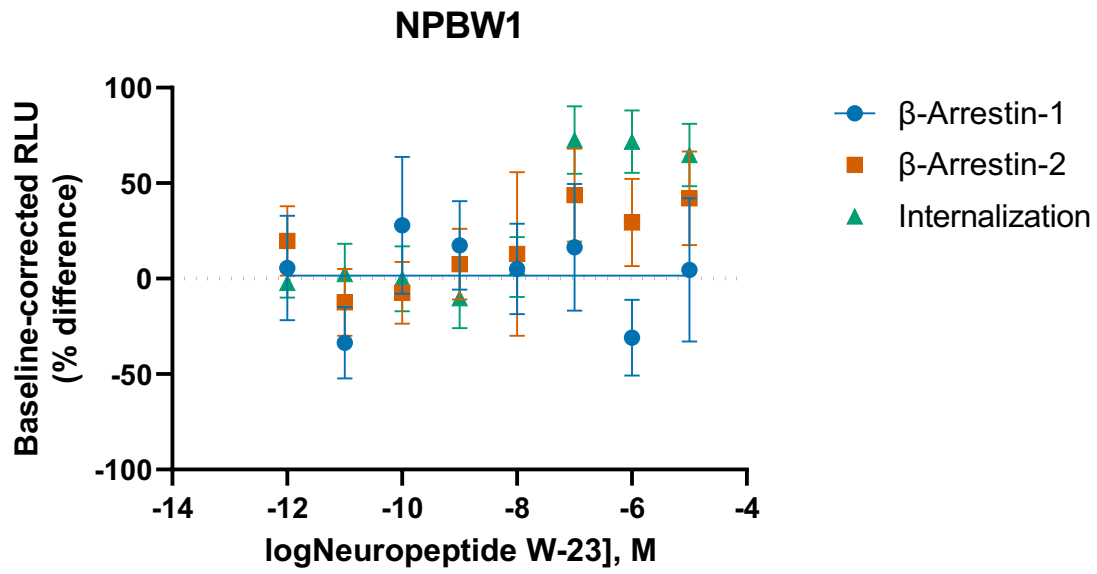
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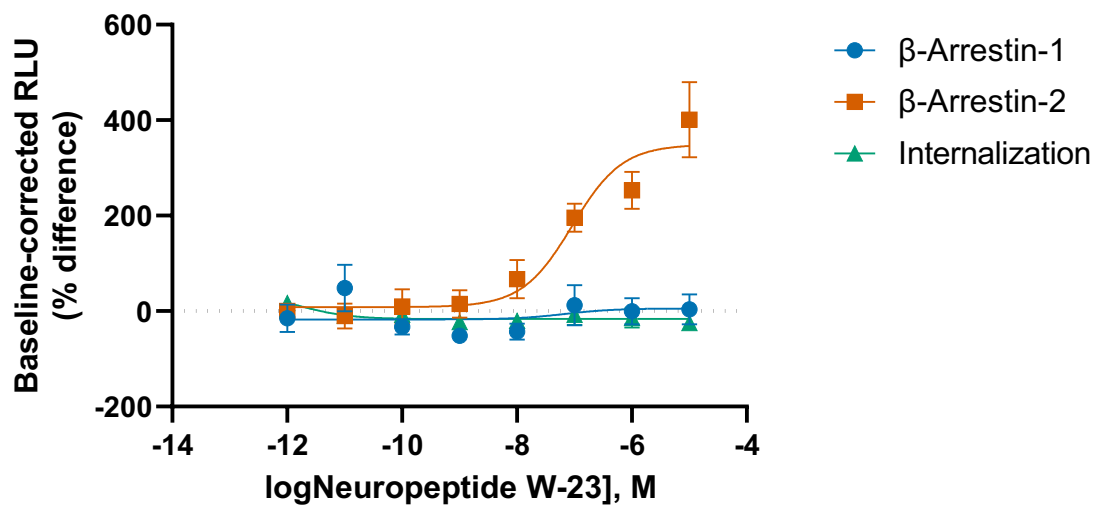
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OPRL1

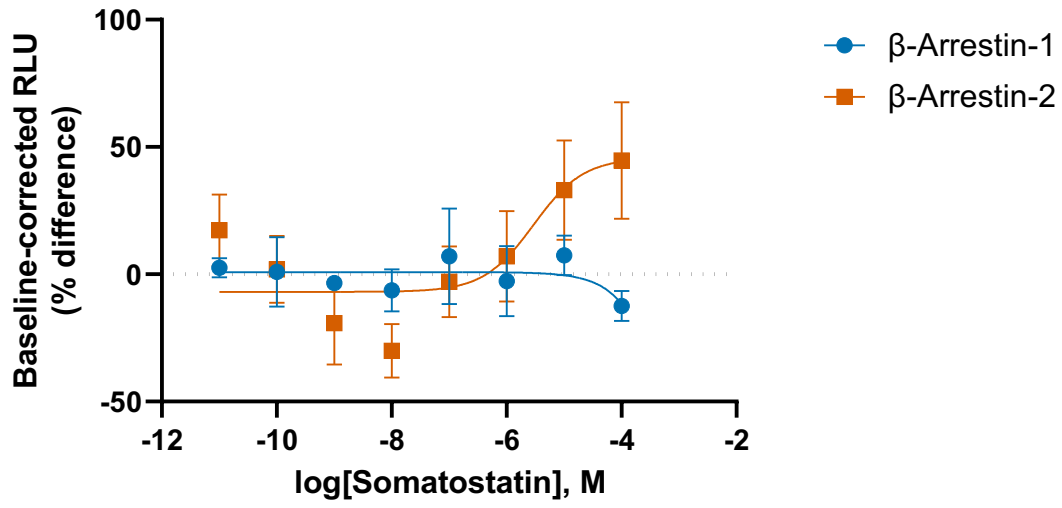




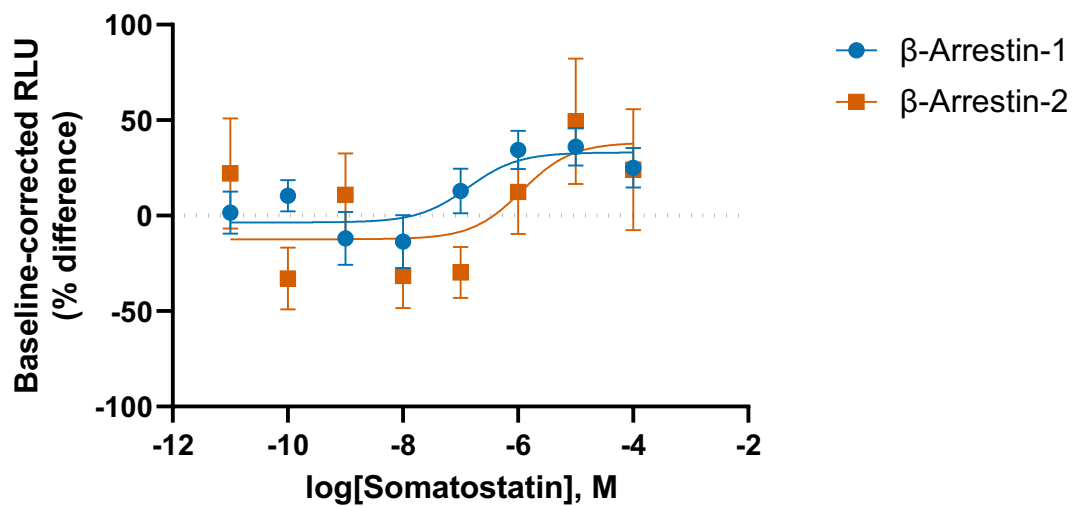
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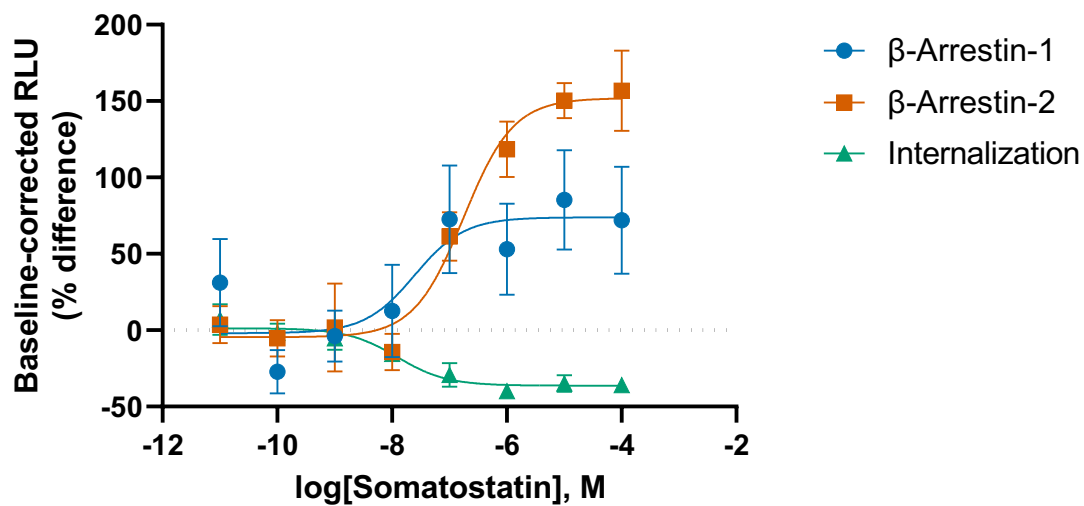
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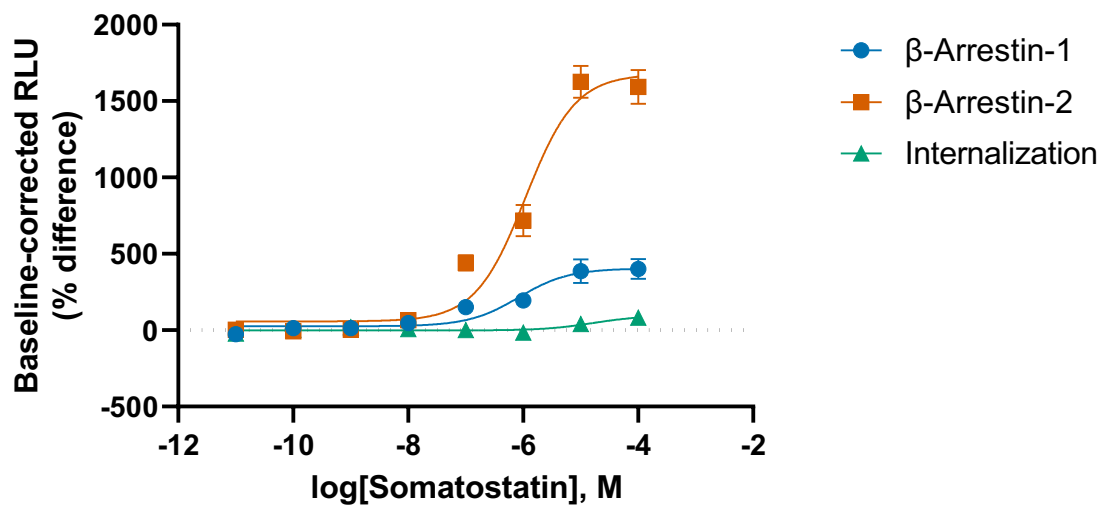
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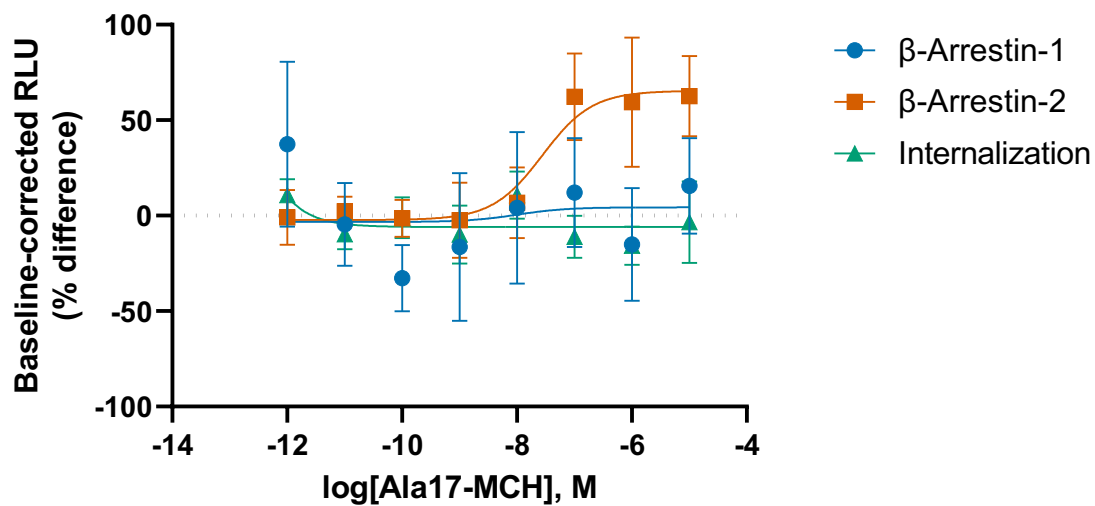
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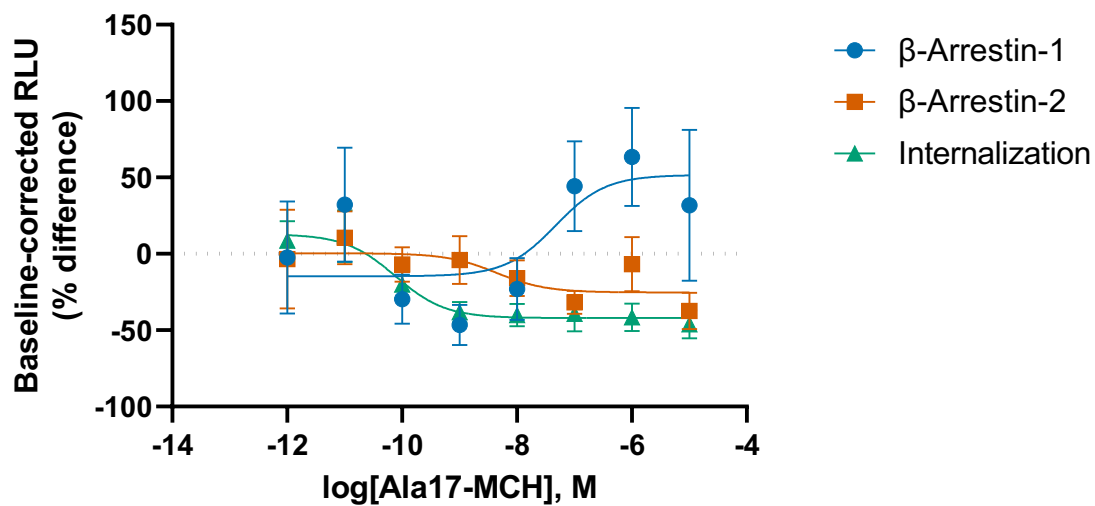
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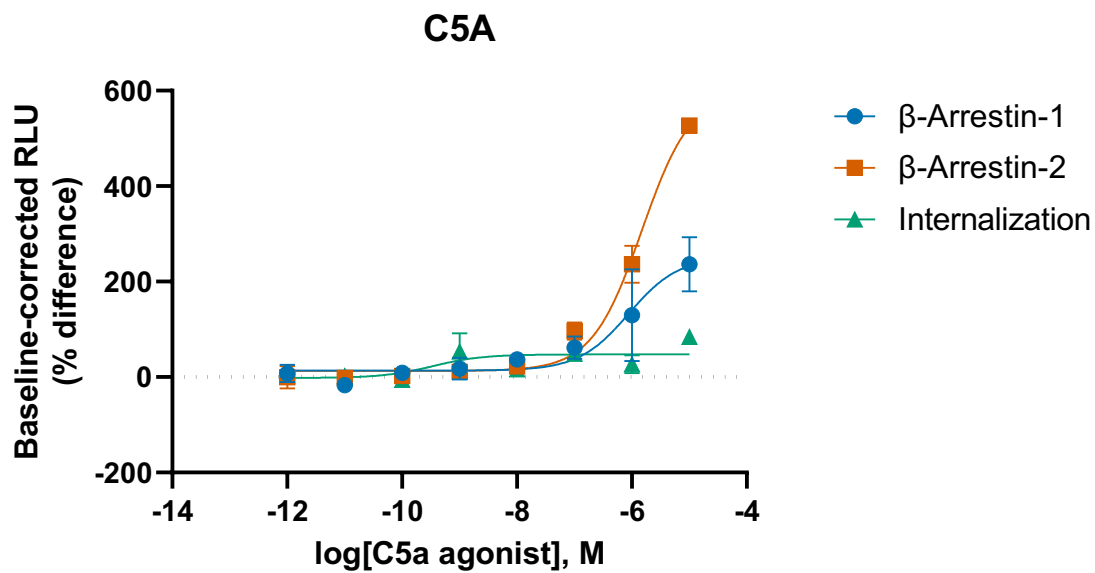


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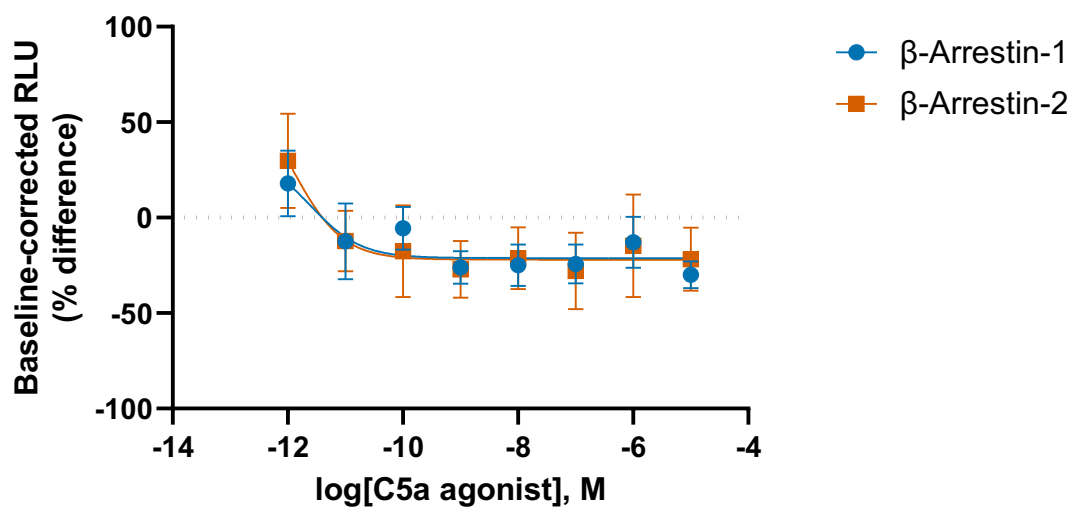


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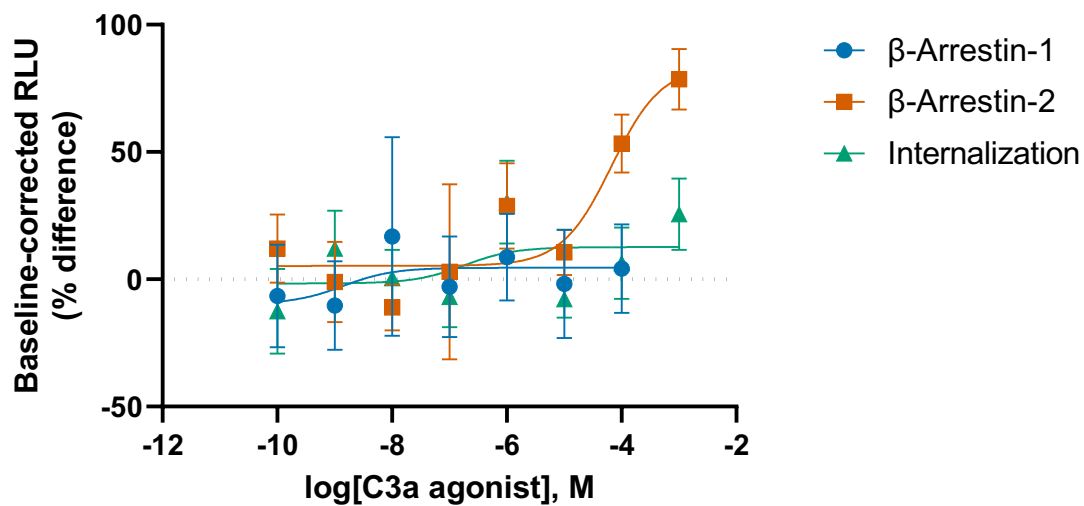




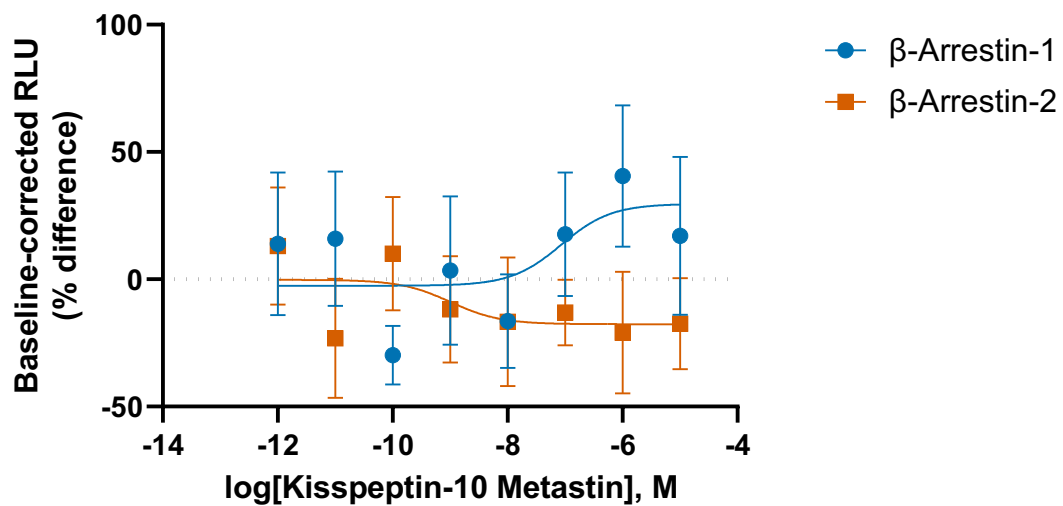
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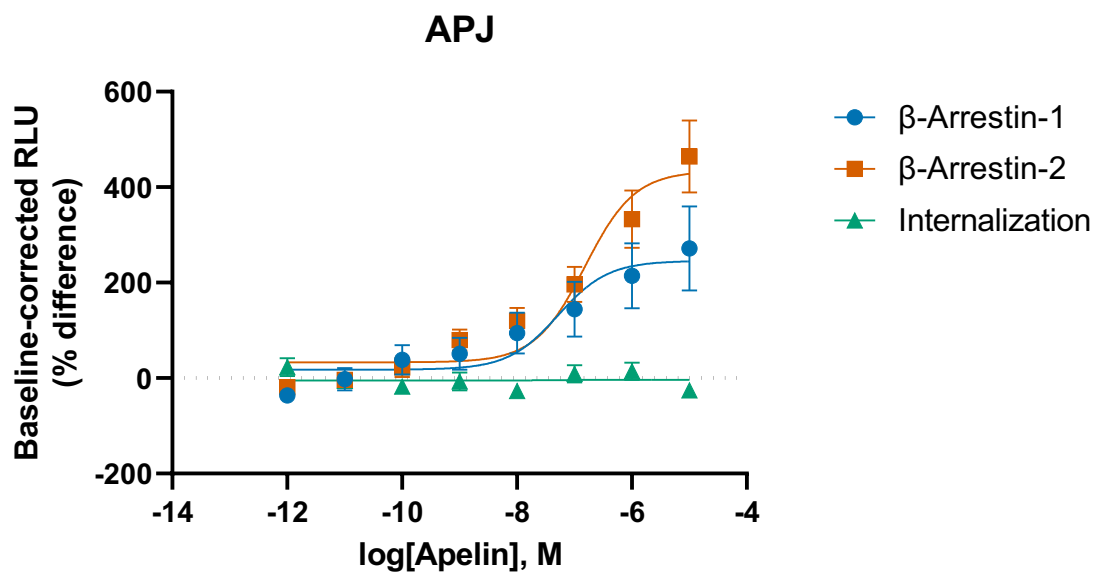


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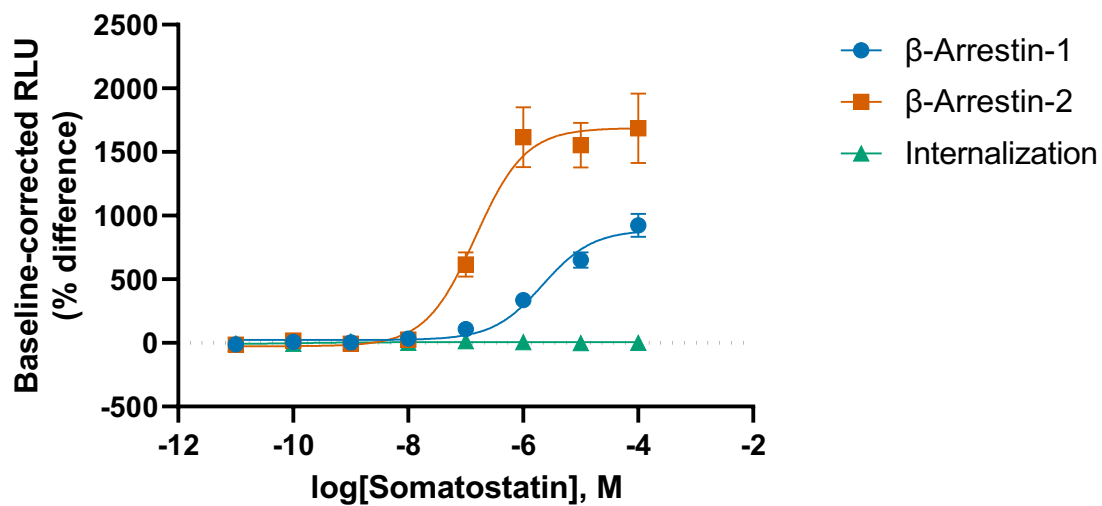


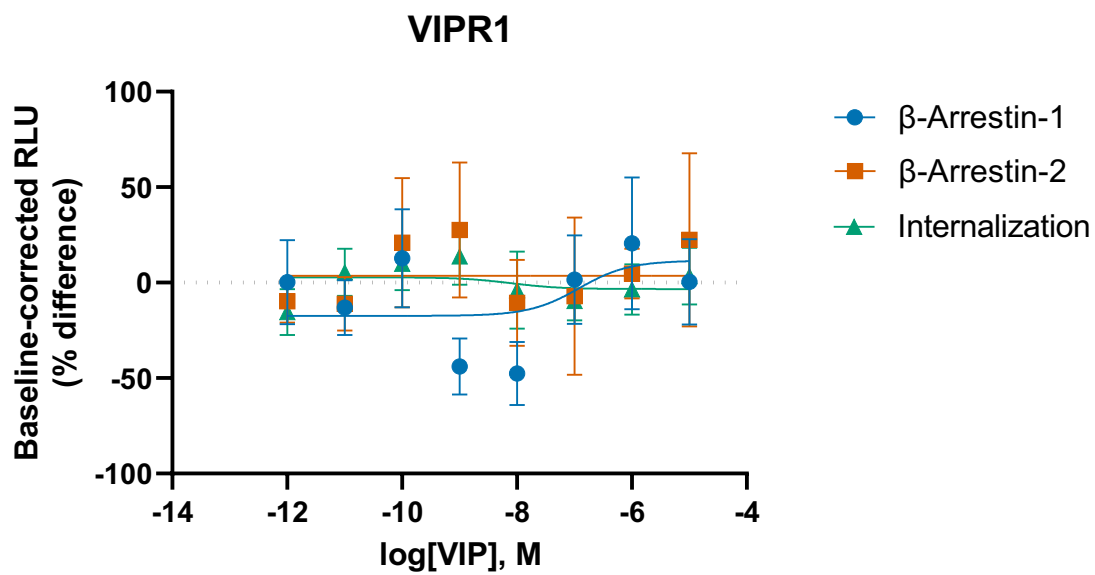
KISS1R





SSTR2





VIPR2

