

Table 2. Inhibitor potencies measured as IC_{50} values in nanomolar for indicated Kv1.3 and Kv1.5 variants evaluated in Syncropatch electrophysiology assay. Values in parenthesis represent % inhibition at top concentration tested. Top concentration tested is indicated with > when no IC_{50} could be determined. For each variant, amino acid substitutions at site VSD and site P-loop is indicated. Green indicate Kv1.3 WT and Blue Kv1.5 WT. NT = Not tested.

	Kv1.3 WT	Kv1.3 ^{Kv1.5 VSD}	Kv1.3 ^{Kv1.5 P-loop}	Kv1.5 WT	Kv1.5 ^{Kv1.3 VSD}	Kv1.5 ^{Kv1.3 P-loop}
Site VSD	T ³²²	G ³²²	T ³²²	G ³⁵¹	T ³⁵¹	T ³⁵¹
Site P-loop	D ⁴²³ P ⁴²⁴ T ⁴²⁵ S ⁴²⁶ G ⁴²⁷ ... H ⁴⁵¹	D ⁴²³ P ⁴²⁴ T ⁴²⁵ S ⁴²⁶ G ⁴²⁷ ... H ⁴⁵¹	N ⁴²³ Q ⁴²⁴ G ⁴²⁵ T ⁴²⁶ H ⁴²⁷ ... R ⁴⁵¹	N ⁴⁵⁹ Q ⁴⁶⁰ G ⁴⁶¹ T ⁴⁶² H ⁴⁶³ ... R ⁴⁸⁷	N ⁴⁵⁹ Q ⁴⁶⁰ G ⁴⁶¹ T ⁴⁶² H ⁴⁶³ ... R ⁴⁸⁷	D ⁴⁵⁹ P ⁴⁶⁰ T ⁴⁶¹ S ⁴⁶² G ⁴⁶³ ... H ⁴⁸⁷
1	0.290	0.295	>3.6 (24%)	>3.6 (10%)	>3 (4.5%)	0.463
2	63.5	48.4	96.1	300.8	262.2	101.44
3a	3.77	3.36	>120 (37%)	>120 (12%)	>120 (6%)	5.9
6a	279	158	>3600 (21.3%)	NT	>3600 (0%)	400