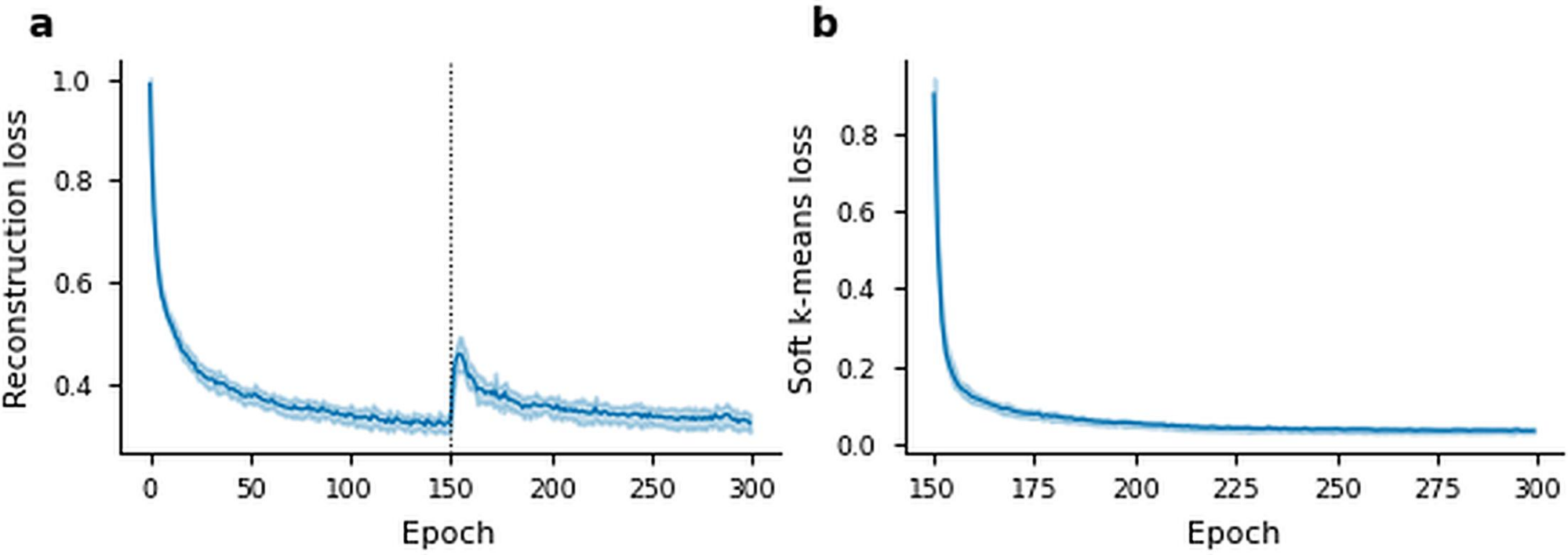

a
Reconstruction loss
1.0
0.8
0.6
0.4
0
50
100
150
200
250
300
Epoch
b
Soft k-means loss
0.8
0.6
0.4
0.2
0.0
150
175
200
225
250
275
300
Epoch