Figure 1a: hKv3.2 currents recorded using the assay described in Biological Example 1, at two concentrations of the compound of Reference Example RE1

Figure 1a

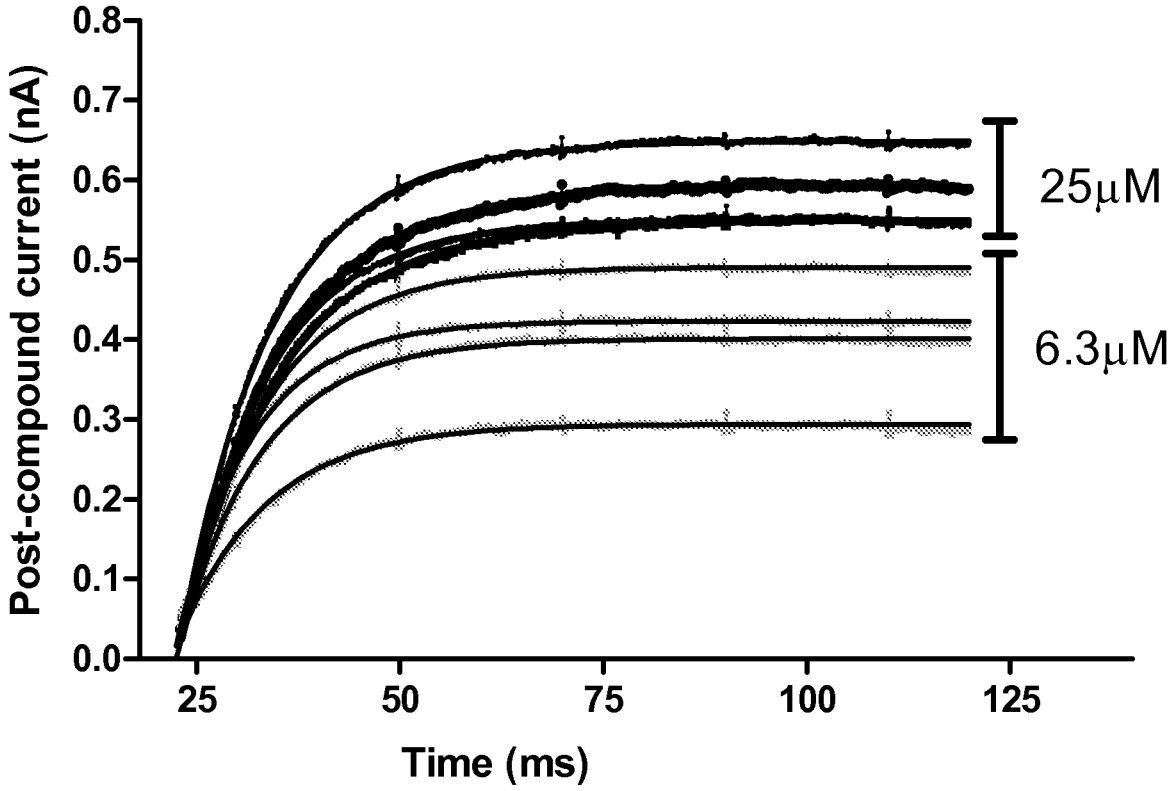
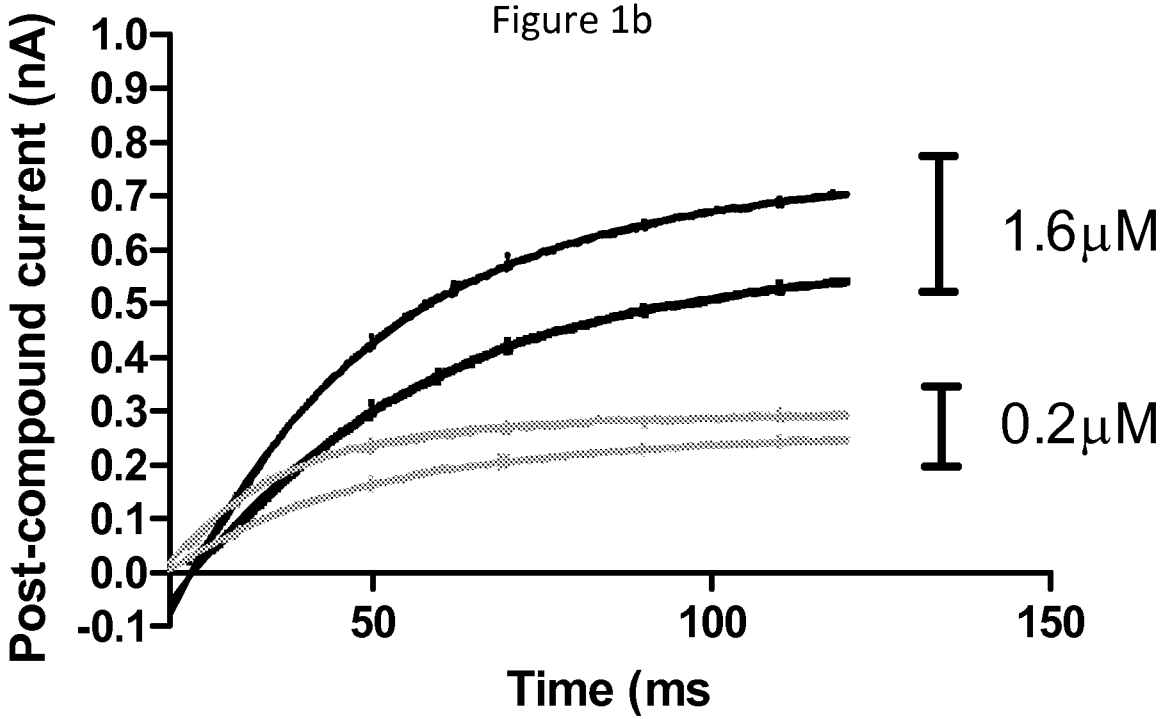


Figure 1b: hKv3.2 currents recorded using the assay described in Biological Example 1, at two concentrations of the compound of Reference Example RE3

Figure 1b



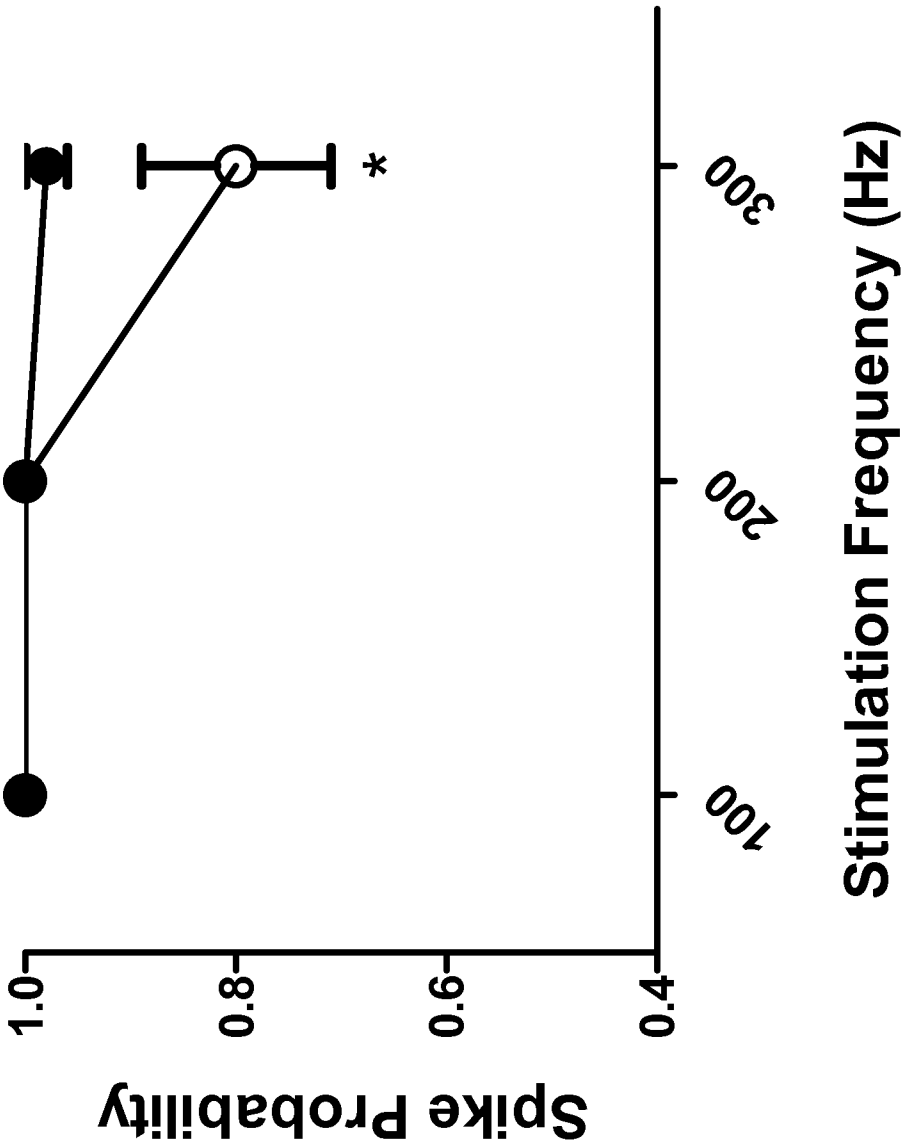

Spike Probability
1.0
0.8
0.6
0.4
100
200
300
Stimulation Frequency (Hz)
*

Figure 2

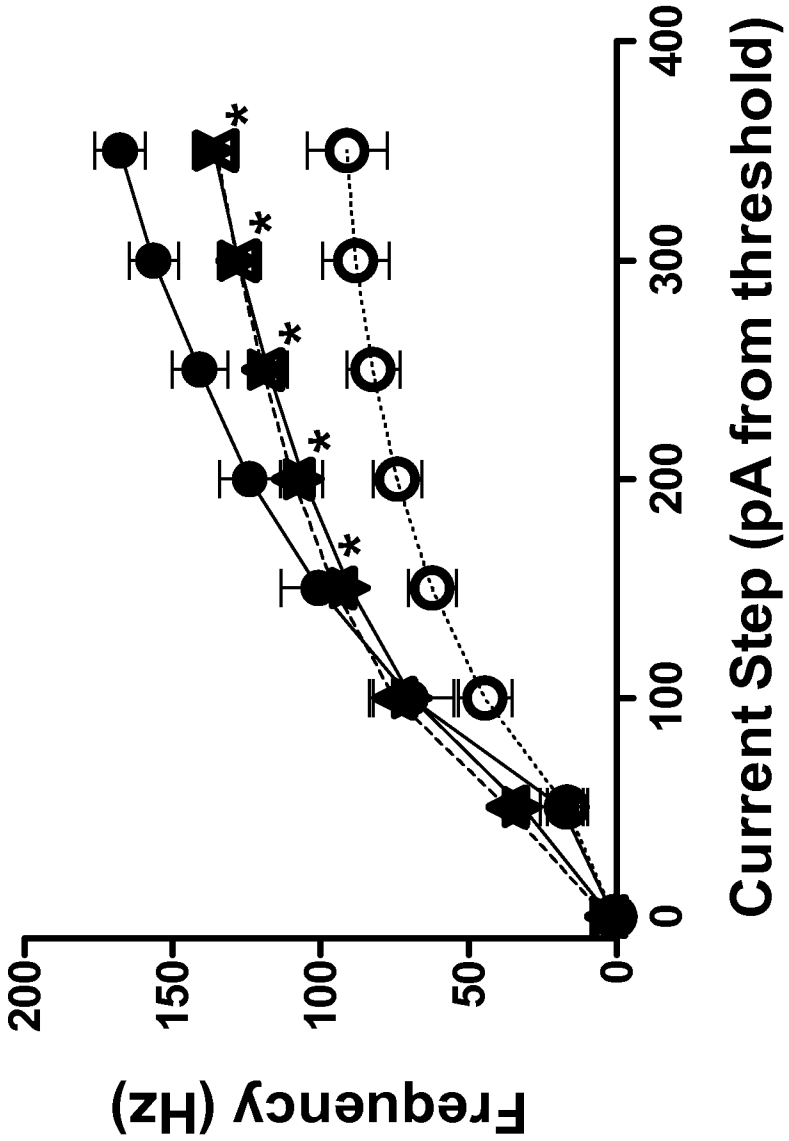

Frequency (Hz)
200
150
100
50
0
0
100
200
300
400
Current Step (pA from threshold)
*
*
*
*
*
*

Figure 3

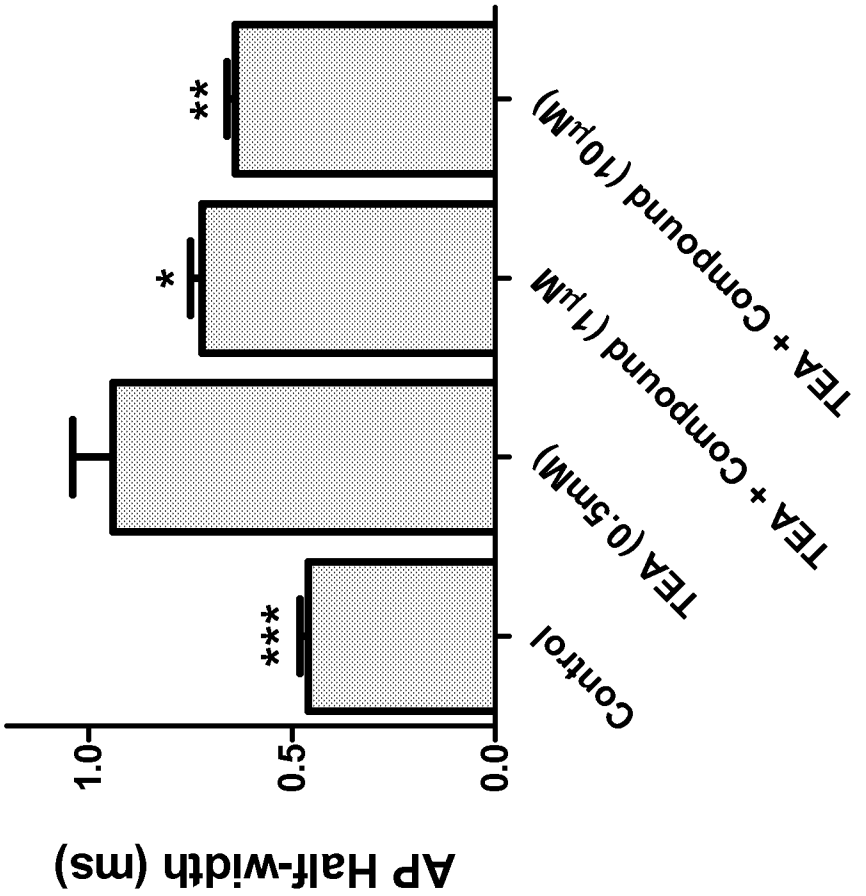

AP Half-width (ms)
1.0
0.5
0.0
***
*
**
Control
TEA (0.5mM)
TEA + Compound (1μM)
TEA + Compound (10μM)

Figure 4

Figure 5

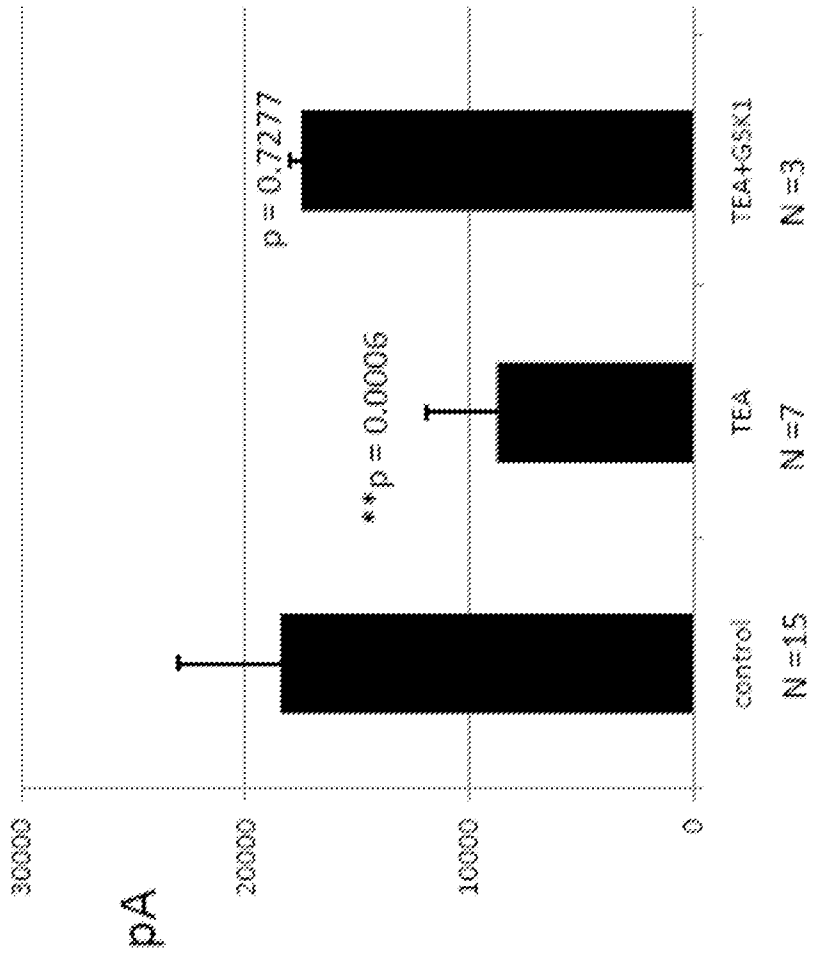
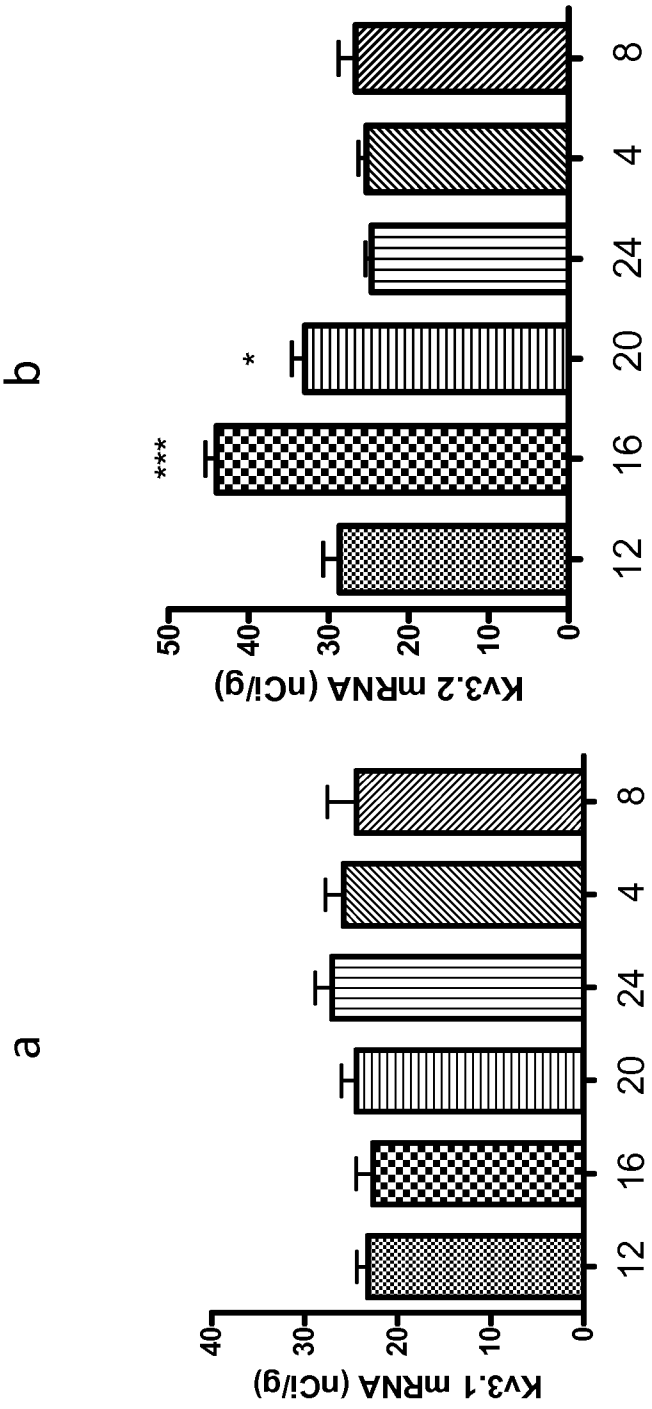

pA
30000
20000
10000
0
control
N=15
TEA
N=7
TEA+GSK1
N=3
**p = 0.0005
p = 0.7277

Figure 6


a
Kv3.1 mRNA (nCi/g)
0
10
20
30
40
12
16
20
24
4
8
b
Kv3.2 mRNA (nCi/g)
0
10
20
30
40
50
12
16
20
24
4
8
***
*