

**TABLE S4. Results of the statistical analysis of half decay time of Cl- Sensor ratiometric fluorescence in N2a cells expressing different mCherry-KCC2 mutants. The mean and SEM values are shown in Figure 3. SD = standard deviation, SEM = standard error of the mean, CV = coefficient of variation.**

**Half Decay Time**

	<b>Mean</b>	<b>SD</b>	<b>SEM</b>	<b>Median</b>	<b>CV</b>	<b>n</b>
Mock	26.8	10.5	5.2	28.2	0.39	4
Wild-Type	4.5	0.94	0.35	4.3	0.21	7
R1049C	15.0	6.9	3.5	12.6	0.46	4
R952H	14.0	7.7	3.9	11.9	0.55	4

***p* (One-way ANOVA between pairs of conditions)**

	<b>Mock</b>		<b>Wild-Type</b>		<b>R1049C</b>	
	<b>F</b>	<b><i>p</i></b>	<b>F</b>	<b><i>p</i></b>	<b>F</b>	<b><i>p</i></b>
<b>Wild-Type</b>	34.1	<0.001				
<b>R1049C</b>	3.5	0.1	16.8	0.003		
<b>R952H</b>	3.9	0.09	11.2	0.009	0.03	0.86