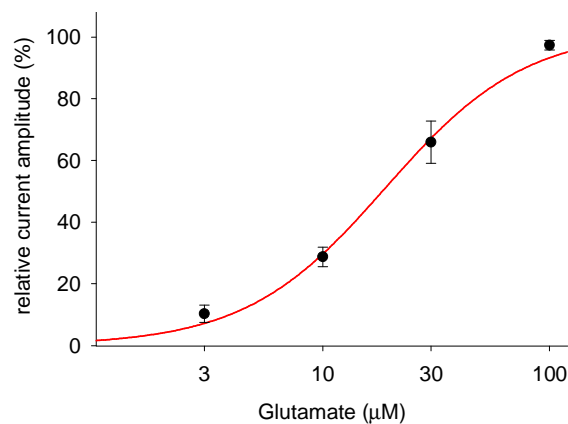
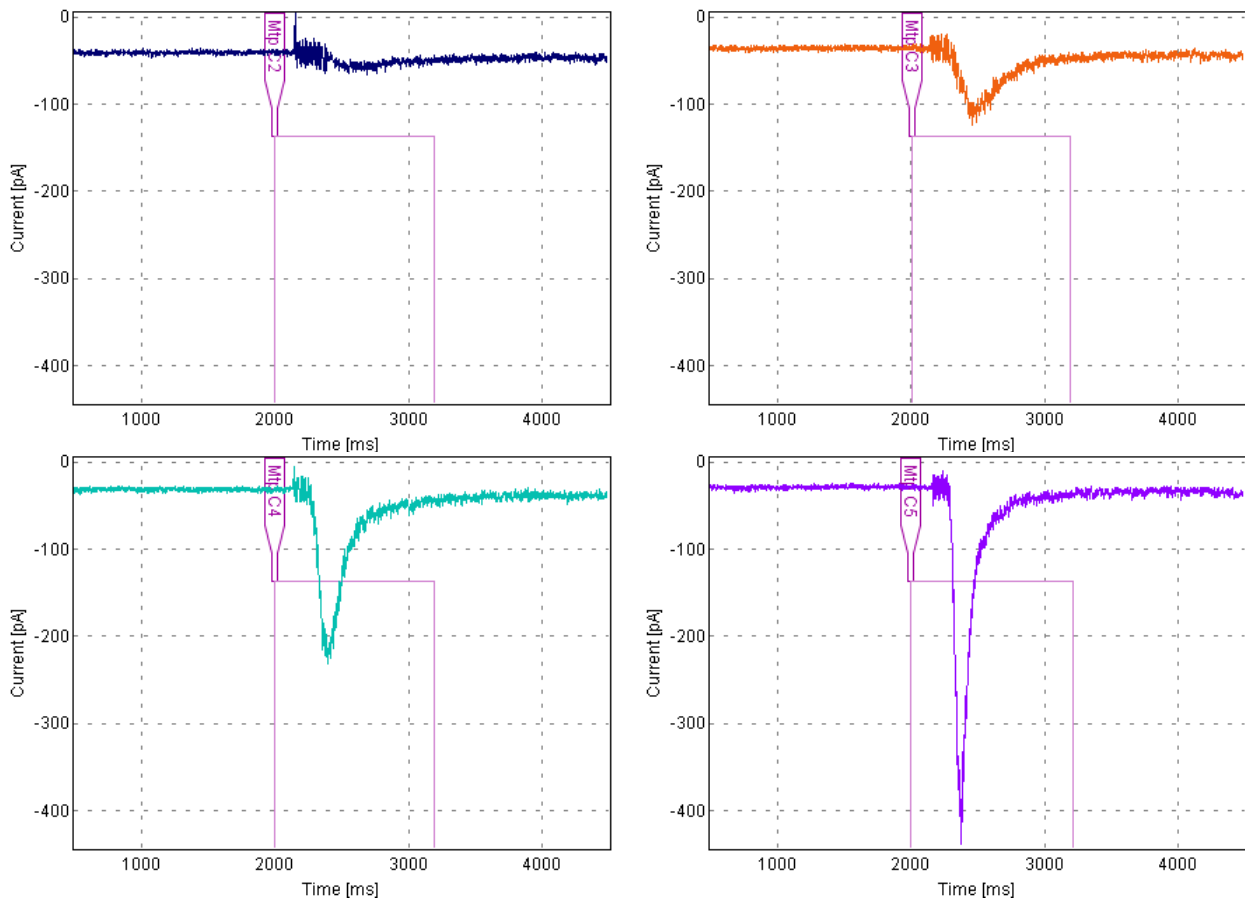


## HEK 293 GRIK2

HEK 293 cells were stably transfected with cDNA coding for the Kainate receptor (GRIK2, GluR6).

The cell line was validated on a Sophion Q-Patch in the single cell whole-cell mode. The Glutamate dependence was analyzed by applying increasing Glutamate concentrations (4 s every 30 s). The dose response curve was generated and the  $EC_{50}$  was determined to be 18.9  $\mu$ M (Hill coefficient 1.4).



As an antagonist ZK200775 was tested at concentrations of 1, 10.2, 26, 64, 100, 160 and 400  $\mu\text{M}$  in the presence of 100  $\mu\text{M}$  Glutamate. The  $\text{IC}_{50}$  was determined to be 196  $\mu\text{M}$  (Hill coefficient: 1.22).

