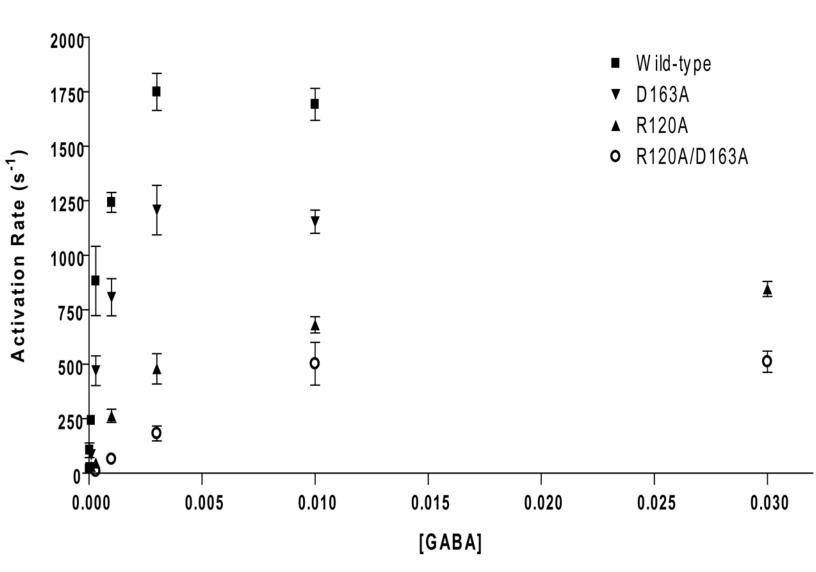
A state-dependent salt-bridge interaction exists across the β/α inter-subunit interface of the GABA_A receptor. Kurt T. Laha and David A. Wagner

Molecular Pharmacology

Supplemental Figure 3



Supplemental Figure 3. The rise times during activation of GABA responses were measured from 10-90% (baseline to peak). The activation rates (1/rise time) are plotted against GABA concentration for each receptor type demonstrating that the rising rates saturate for each of the constructs (wild-type 10 mM GABA: $1562 \pm 98 \text{ s}^{-1}$; D163A 10 mM GABA: $1075 \pm 58 \text{ s}^{-1}$; R120A 30 mM GABA: $813 \pm 33 \text{ s}^{-1}$; R120A/D163A 30 mM GABA: $498 \pm 40 \text{ s}^{-1}$). Mutant cycle analysis of the rise rates yields a coupling energy of -0.07 kcal/mol and indicates R120A and D163A have independent effects on rise rates.