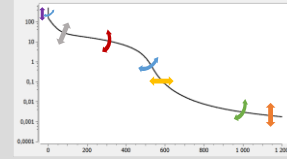


Full model

9: $V, k_{el}, k_{int}, k_{on}, K_D, k_{syn}, R_0, k_{12}, k_{21}$



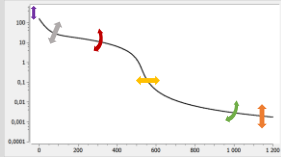
Rapid binding (k_{on} & k_{off} large)
 $k_{on} \rightarrow +\infty$

R_{tot} constant ($k_{int} = k_{deg}$)
 $k_{syn} = R_0 k_{int}$

Irreversible binding ($k_{off} \approx 0$)
 $K_D \rightarrow 0$

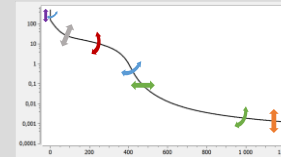
QE/QSS model

8: $V, k_{el}, k_{int}, K_D, k_{syn}, R_0, k_{12}, k_{21}$



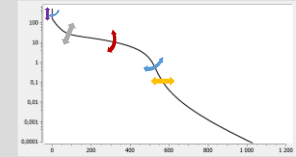
Constant R_{tot} model

8: $V, k_{el}, k_{int}, k_{on}, K_D, R_0, k_{12}, k_{21}$



Irreversible binding (IB) model

8: $V, k_{el}, (k_{int}), k_{on}, k_{syn}, R_0, k_{12}, k_{21}$



R_{tot} constant ($k_{int} = k_{deg}$)
 $k_{syn} = R_0 k_{int}$

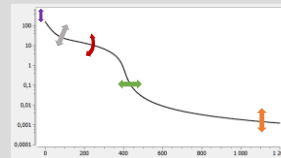
Rapid binding (k_{on} & k_{off} large)
 $k_{on} \rightarrow +\infty$

Irreversible binding ($k_{off} \approx 0$)
 $K_D \rightarrow 0$

R_{tot} constant ($k_{int} = k_{deg}$)
 $k_{syn} = R_0 k_{int}$

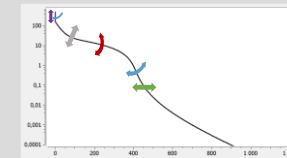
Wagner model

7: $V, k_{el}, k_{int}, K_D, R_0, k_{12}, k_{21}$



Const. R_{tot} + Irr. binding model

7: $V, k_{el}, k_{int}, k_{on}, R_0, k_{12}, k_{21}$



$R_{tot} K_D / (L + K_D)^2 \ll 1$
 $V_m = k_{int} R_0, K_m = K_D$

QSS on P, and $R_{tot} K_D / (L + K_D)^2 \ll 1$
 $V_m = k_{int} R_0, K_m = k_{int} / k_{on}$

Michaelis-Menten (MM) model

6: $V, k_{el}, V_m, K_m, k_{12}, k_{21}$

