Steady State Inhibition Metric =
$$\frac{C}{C + IC_{50}}$$

	In Vitro	In vivo,	In vivo	In vivo, in tissue
Tissue	-	Circulation	Circulation	Tissue
Ligand	-	-	yes	-
IC ₅₀	K_{ss}	$K_{ss} \cdot T_{ ext{fold}}$	$K_{ss} \cdot T_{ ext{fold}} \cdot L_{ ext{fold}}$	$\frac{K_{ss} \cdot T_{\text{fold}}}{B}$
Model	D + T ← DT	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Dose _{iv} D + T + L DT TL TL	$ \frac{Target}{Tissue}(3) + M_3 + DM_3 $ $ + S_3 + DS_3 $ $ Central (1) + S_1 + DS_1 $
T = Target L = Ligand M = Membrane-bound target S = Soluble target (shed)		entral compartment eripheral compartment essue compartment fold-increase in total target and after of the compartment arget are compared after of the compared after of the compared arget are compared after of the compared argument argument argument are compared are co		Dose _{iv} D_1 M_1 DM_1 DM_2
L _{fold} = fold-increase in ligand after drug binds target B = biodistribution coefficient				