
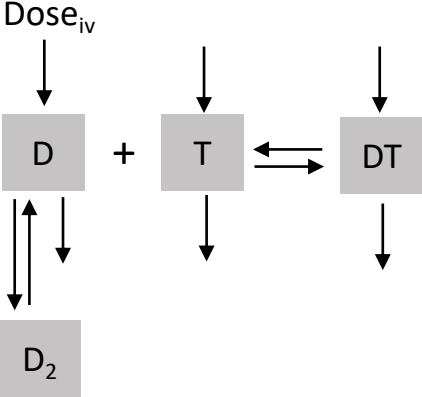
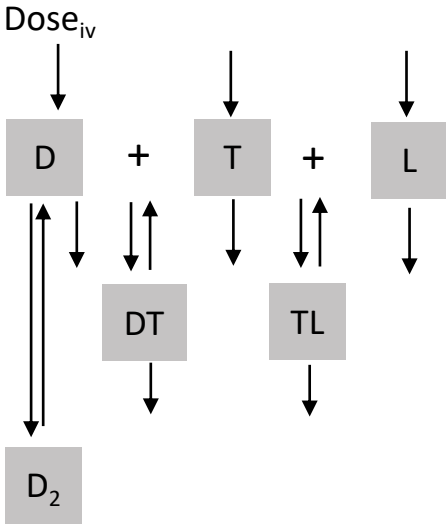
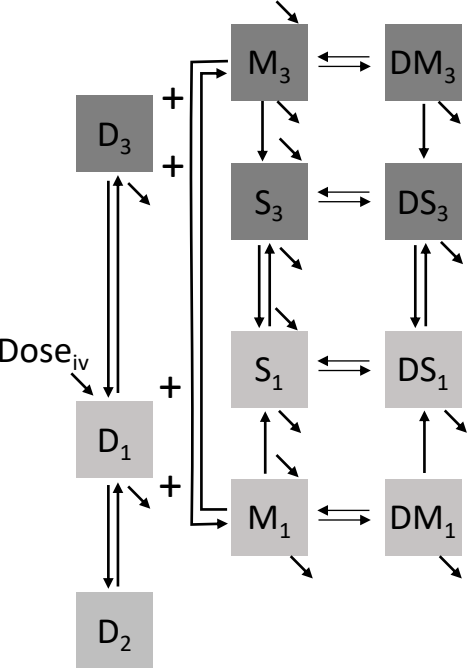


Steady State Inhibition Metric (SSIM) =
$$\frac{C_{ss}}{C_{ss} + IC_{50}}$$

Name	Binding		TMDD	TMDD+L	TMDD+tissue
Tissue	In vitro		Circulation	Circulation	Tissue
Ligand	no		no	yes	no
IC <sub>50</sub>	$K_{ss}$		$K_{ss} \cdot T_{fold}$	$K_{ss} \cdot T_{fold} \cdot L_{fold}$	$\frac{K_{ss} \cdot T_{fold}}{B}$
Model					
D = Drug T = Target L = Ligand M = Membrane-bound target S = Soluble target (shed)		1 = central compartment 2 = peripheral compartment 3 = tissue compartment  T <sub>fold</sub> = fold-increase in total target after binding drug L <sub>fold</sub> = fold-increase in ligand after drug binds target B = tissue biodistribution coefficient			