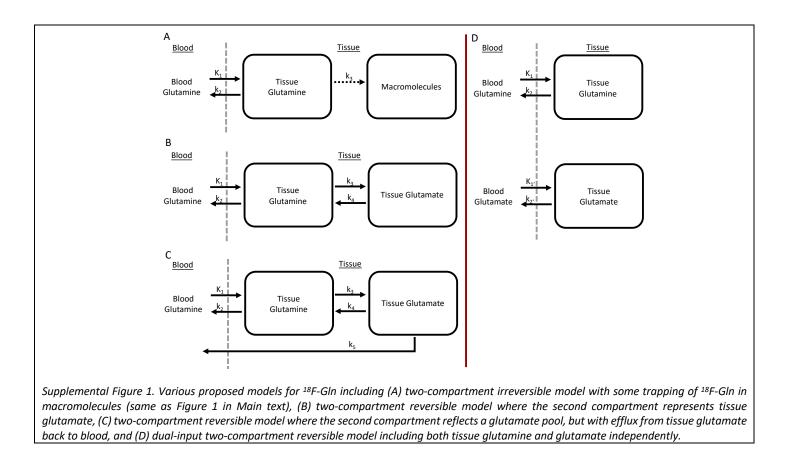
SUPPLEMENTAL METHODS



BIAS CALCULATION

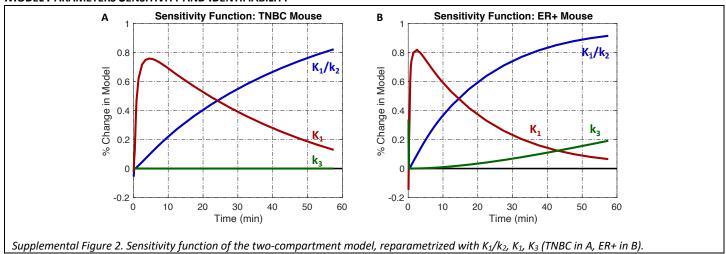
Supplemental Equation I. Bias and precision calculations for simulations

 $bias = 100\% * (x - \hat{x})/\hat{x}$

 $\%SD = IQR/\hat{x}$

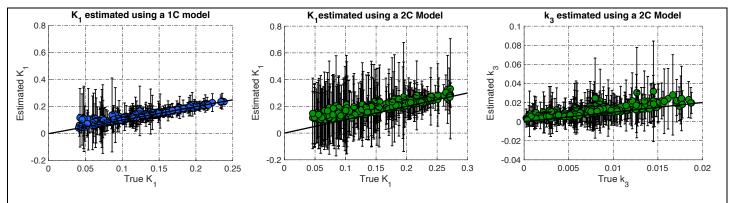
where \hat{x} is the true value and x is the measured value.

SUPPLEMENTAL RESULTS MODEL PARAMETERS SENSITIVITY AND IDENTIFIABILITY



Supplemental Table I. Identifiability matrix of the two-compartment model, reparametrized with K₁/k₂, K₁, K₃.

ТИВС					ER+				
	K ₁	K1/k2	k ₃		K ₁	K ₁ /k ₂	k ₃		
	1.00		0.71	K ₁		-0.61			
K_1/k_2	-0.80	1.00	-0.97	K ₁ /k ₂	-0.61	1.00	-0.70		
k₃	0.71	-0.97	1.00	k ₃	0.14	-0.70	1.00		



Supplemental Figure 3. Comparison of true v. estimated kinetic parameters fit, including K_1 (top), k_2 (middle), and k_3 (bottom), using a one-compartment (left) and two-compartment model with trapping (right). (see main text for details)

