

$$\text{inf\_out\_ub}([I_{\text{ub}} * S_{\text{ub}} * \text{beta\_ub}]) = [0.000316 * I_{\text{ub}} * S_{\text{ub}}]$$

0.0

$I_{\text{ub}}$

$$\text{rec\_out\_ub}([I_{\text{ub}} * \text{gamma\_ub}]) = [0.1 * I_{\text{ub}}]$$

$$\text{rec\_in\_lb}([I_{\text{lb}} * \text{gamma\_ub}]) = [0.1 * I_{\text{lb}}]$$

0.0

$R_{\text{lb}}$

$$\text{rec\_in\_ub}([I_{\text{ub}} * \text{gamma\_lb}]) = [0.1 * I_{\text{ub}}]$$

0.0

$R_{\text{ub}}$