$$\frac{dR_P}{dt} = \boxed{\frac{k_1 S(R_T - R_P)}{K_{m1} + R_T - R_P}} - \boxed{\frac{k_2 R_P}{K_{m2} + R_P}}$$

$$R_{P,SS} = G(k_1, S, k_2, \frac{K_{m1}}{R_T}, \frac{K_m 2}{R_T}) \cdot R_T$$

$$G(u, v, J, K) = \frac{2uK}{v - u + vJ + uK + \sqrt{(v - u + vJ + uK)^2 - 4(v - u)uK}}$$