0.1 Basic Kill Switch

$$\frac{\mathrm{d}[C_{\mathrm{Cas},1}]}{\mathrm{d}t} = +k_{C_g}[P_{\mathrm{Cas}}][G_1] - \delta_{C_g}[C_{\mathrm{Cas},1}] \tag{1}$$

$$\frac{\mathrm{d}[C_{\mathrm{Cas},2}]}{\mathrm{d}t} = +k_{C_g}[P_{\mathrm{Cas}}][G_2] - \delta_{C_g}[C_{\mathrm{Cas},2}] \tag{2}$$

$$\frac{\mathrm{d}[P_{\mathrm{Cas}}]}{\mathrm{d}t} = \alpha_{p,P_{\mathrm{Cas}}}V - \delta_{p,P_{\mathrm{Cas}}}[P_{\mathrm{Cas}}] + -k_{C_g}[P_{\mathrm{Cas}}][G_1] + -k_{C_g}[P_{\mathrm{Cas}}][G_2] \tag{3}$$

$$\frac{\mathrm{d}[G_1]}{\mathrm{d}t} = \alpha_{r,G_1}V - \delta_g[G_1] + -k_{C_g}[P_{\mathrm{Cas}}][G_1] \tag{4}$$

$$\frac{\mathrm{d}[G_2]}{\mathrm{d}t} = \alpha_{r,G_2}V - \delta_g[G_2] + -k_{C_g}[P_{\mathrm{Cas}}][G_2] \tag{5}$$