

$$ERK = ERK_b + (ERK_t - ERK_b) \cdot \left( \frac{MEK^{k4}}{\tau_4^{k4} + MEK^{k4}} \right) \cdot \left( 1 - \frac{FB_1^{kFB1}}{\tau_{FB1}^{kFB1} + FB_1^{kFB1}} \right) \cdot \left( 1 - \frac{ERKi^{ki4}}{\tau_{i4}^{ki4} + ERKi^{ki4}} \right)$$