

bi_egf_pathway_1999

1 “environment” component

This component has no equations.

2 “EGF” component

$$\frac{d(EGF)}{d(time)} = delta_EGF$$

3 “EGFR” component

$$\frac{d(EGFR)}{d(time)} = delta_EGFR$$

4 “EGF_EGFR” component

$$\frac{d(EGF_EGFR)}{d(time)} = (delta1_EGF_EGFR + delta2_EGF_EGFR)$$

5 “EGF_EGFR_Int” component

$$\frac{d(EGF_EGFR_Int)}{d(time)} = delta_EGF_EGFR_Int$$

6 “EGF_EGFR_bind_rxn” component

This component has no equations.

7 “EGF_EGFR_internalization” component

This component has no equations.

8 “EGF_subsystem” component

This component has no equations.

9 “SHC” component

$$\frac{d(SHC)}{d(time)} = \text{delta_SHC}$$

10 “SHC_active” component

$$\frac{d(SHC_active)}{d(time)} = (\text{delta1_SHC_active} + \text{delta2_SHC_active})$$

11 “SHC_activation_rxn” component

This component has no equations.

12 “SOS” component

$$\frac{d(SOS)}{d(time)} = (\text{delta1_SOS} + \text{delta2_SOS})$$

13 “GRB2” component

$$\frac{d(GRB2)}{d(time)} = (\text{delta1_GRB2} + \text{delta2_GRB2})$$

14 “SOS_GRB2” component

$$\frac{d(SOS_GRB2)}{d(time)} = (\delta_{1_SOS_GRB2} + \delta_{2_SOS_GRB2})$$

15 “SOS_GRB2_binding_rxn” component

This component has no equations.

16 “SHC_active_SOS_GRB2” component

$$\frac{d(SHC_active_SOS_GRB2)}{d(time)} = \delta_{SHC_active_SOS_GRB2}$$

17 “SHC_active_SOS_GRB2_binding_rxn” component

This component has no equations.

18 “GDP_ras” component

$$\frac{d(GDP_ras)}{d(time)} = \delta_{GDP_ras}$$

19 “GTP_ras” component

$$\frac{d(GTP_ras)}{d(time)} = \delta_{GTP_ras}$$

20 “Ras_activation_rxn” component

This component has no equations.

21 “SOS_active” component

$$\frac{d(SOS_active)}{d(time)} = (delta1_SOS_active + delta2_SOS_active)$$

22 “MAPK_active” component

This component has no equations.

23 “SOS_activation_rxn” component

This component has no equations.

24 “SOS_active_GRB2” component

$$\frac{d(SOS_active_GRB2)}{d(time)} = delta_SOS_active_GRB2$$

25 “SOS_active_GRB2_binding_rxn” component

This component has no equations.