R1-24

June 10, 2025

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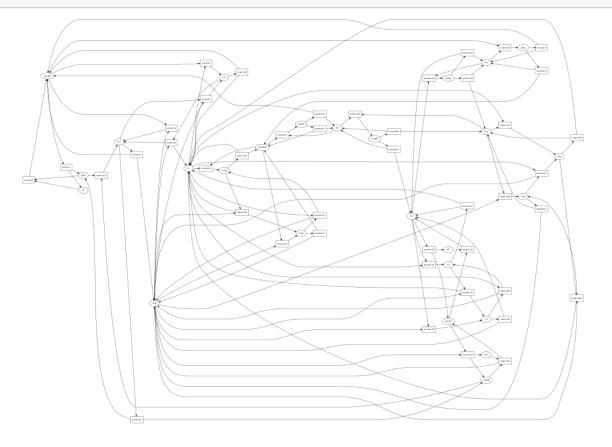
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```
[1]: e2 + GDP \iff e2GDP.
     e2GDP + e5 <=> Ce1.
     e2GDP + e2B \iff Ce2.
     Ce1 + e2B <=> Ce2 + e5.
     e2GDP + kin <=> e2kin.
     e2kin => e2pGDP + kin.
     e2pGDP + PP \iff e2pPP.
     e2pPP \Rightarrow e2GDP + PP.
     e2pGDP + e5 \iff Ce3p.
     e2pGDP + e2B \iff Ce4p.
     Ce3p + e2B <=> Ce4p + e5.
     Ce2 \iff e2e2B + GDP.
     e2e2B + GTP <=> e2GTP + e2B.
     tR + e2GTP <=> TC.
     TC+e5 <=> C1.
     TC + e2B <=> C2.
     C2 + e5 <=> C1 + e2B.
     TC + kin<=>TCkin.
     TCkin => TCp + kin.
     TCp + PP<=>TCpPP.
     TCpPP \Rightarrow TC + PP.
     TCp + e5 <= > C3p.
     TCp + e2B <=> C4p.
     C3p + e2B <= > C4p + e5.
```

[1]:

[2]: draw_reactions.



[2]:

[3]: list_ode.

$$c2B_0 = 0$$

$$c3p_0 = 0$$

$$c5_0 = 0$$

$$c4p_0 = 0$$

$$c7C_0 = 0$$

$$c8CDP_0 = 0$$

$$c7C_0 = 0$$

$$c8CDP_0 = 0$$

$$c7C_0 = 0$$

$$c8CDP_0 = 0$$

$$c8CDP_0 = 0$$

$$c8CDP_0 = 0$$

$$c7C_0 = 0$$

$$c8CDP_0 = 0$$

$$c7C_0 = 0$$

$$c8CDP_0 = 0$$

$$c8CDP_0 = 0$$

$$c8CDP_0 = 0$$

12		
10		

[]:[