|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type** | **Parameter** | **Simulation Value** | **Reference Value** | **References** |
| **Size** | $$L\_{AP}(0)$$ | 74 μm | Extrapolation from measured data |  |
| $$L\_{DV}(0)$$ | 172 μm | Extrapolation from measured data |  |
| $$A\_{0}$$ | 10000 μm2 | Extrapolation from measured data | [24] |
| $$k\_{0}$$ | 4 × 10-5 s-1 | Fitted growth kinetics | [24] |
| $$δ\_{PL}$$ | 0.0107 μm-1 | Fitted growth kinetics | [24] |
| **Diffusion** | $$D\_{Dpp}$$ | 0.1 μm2 s-1  | Wing Disc value | [29] |
| $$D\_{Hh}$$ | 0.033 μm2 s-1 | Measured | Fig. 3 |
| $$D\_{Hth}$$ | 0.00025 μm2 s-1 | ~0, acts inside cell |  |
| $$D\_{Eya}$$ | 0.00025 μm2 s-1 | ~0, acts inside cell |  |
| $$D\_{pMad}$$ | 0.00025 μm2 s-1 | ~0, acts inside cell |  |
| **Degradation** | $$δ\_{Dpp}$$ | 2.5 × 10-4 s-1 | Half-life of Dpp in wing disc | [29] |
| $$δ\_{Hh}$$ | 1 × 10-3 s-1 | Characteristic length in wing disc | [29,34] |
| $$δ\_{Hth}$$ | 7 × 10-5 s-1 | Measured | Fig. 2 |
| $$δ\_{Eya}$$ | 1 × 10-3 s-1 | Assuming fast kinetics |  |
| $$δ\_{pMad}$$ | 1 × 10-3 s-1 | Assuming fast kinetics |  |
| **Prod & Regulation** | $$p\_{i}$$ | 7 × 10-5 s-1 | Non-Dimensional concentration |  |
| $$η$$ | 3 × 10-10 μm-1 | Non-Dimensional concentration |  |
| $$\overbar{K}\_{pMad}$$ | 0.0015 | Fitted concentration profile | Fig. 7 |
| $$\overbar{K}\_{Hh}$$ | 0.01 | Fitted concentration profile | Fig. 7 |
| $$K\_{Dpp}$$ | 0.003 | Fitted concentration profile | Fig. 7 |
| $$K\_{Hh}$$ | 0.008 | Fitted concentration profile | Fig. 7 |
| $$K\_{pMad}$$ | 0.02 | Fitted concentration profile | Fig. 7 |
| $$n\_{Dpp}$$ | 1 | Fitted concentration profile | Fig. 7 |
| $$n\_{Hh}$$ | 1 | Fitted concentration profile | Fig. 7 |
| $$n\_{pMad}$$ | 2 | Fitted concentration profile | Fig. 7 |
| $$θ\_{Hh}$$ | 0.0465 | Fitted concentration profile | Fig. 7 |
| $$θ\_{Hth}$$ | 0.375 | Fitted concentration profile | Fig. 7 |