**Table S1. Search range for parameter estimation.**

|  |  |  |
| --- | --- | --- |
| Symbol | Values | Units |
| *ks1* | 0.05–10 | μM-1 s-1 |
| *k\_s1* | 0.005–1 | s-1 |
| *ks2* | 0.05–10 | μM-1 s-1 |
| *k\_s2* | 0.005–1 | s-1 |
| *kp1* | 0.005–1 | s-1 |
| *kp2* | 0.005–1 | s-1 |
| *kd* | 0.005–1 | s-1 |