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| --- | --- | --- | --- | --- |
| **TABLE 1 List of parameter values** | | | |  |
| Parameter  name | Value | | | Sourse |
| *α* isoform | | *δ* isoform |
| *[CaM]total*  *k1*  *k-1, k-2*  *k2*  *k3*  *k-3, k-4*  *k4*  *k\_asso* | 6 *µ*M  2.5 Mm-1 ms-1  0.05 ms-1  88.25 Mm-1 ms-1  12.5 mM-1 ms-1  1.25ms-1  250 mM-1 ms-1  2.1 mM-1 ms-1 | | | (12)  (16)  (16)  (16)  (16)  (16)  (16)  Model fit |
| *k\_disso*  *k\_dissoCa*  *k\_disso2*  *k\_dissoCa2* | 1.4 × 10-4 ms-1  1.9 × 10-3 ms-1  1.4 × 10-7 ms-1  1.9 × 10-6 ms-1 | | 0.7 × 10-4 ms-1  0.95 × 10-3 ms-1  0.7 × 10-7 ms-1  0.95 × 10-6 ms-1 | Model fit  Model fit  Model fit Model fit |
| *kmCaM* | 3.0 × 10-5 mM | | | (23) |
| *kcat (at 0℃)*  *kcat (at 30℃)*  *kcat (at 37℃)* | 1.0 × 10-5 ms-1  3.0 × 10-4 ms-1  9.0 × 10-4 ms-1 | 6.0 × 10-5 ms-1  1.8 × 10-3 ms-1  5.4 × 10-3 ms-1 | | Model fit  (temperature change according to (29)) |
| *KmATP*  *kcat\_PP1*  *Km\_PP1* | 19.1 × 10-3 mM  1.72 × 10-3 ms-1  11.0 × 10-3 mM | | | (22)  (34)  (34) |
| Note that only *kcat* is temperature dependent. | | | |  |