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| **Supplementary File 1a. The Steady-State Kinetic Parameters for Pure Wild Type SARM1 TIR (10 µM) with Varied PEG** |
|  | 0% | 10% | 12.5% | 15% | 17.5% | 20% | 25% |
| *K*m (µM) | 1750 ± 100 | 650 ± 100 | 640 ± 100 | 390 ± 70 | 440 ± 80 | 390 ± 60 | 500 ± 100 |
| *k*cat (s-1) | 0.00037 ± 0.00007 | 0.20 ± 0.02 | 0.37 ± 0.03 | 0.45 ± 0.03 | 0.59 ± 0.04 | 0.59 ± 0.03 | 0.86 ± 0.06 |
| *k*cat/*K*m (M-1s-1) | 0.21 ± 0.05 | 300 ± 80 | 590 ± 100 | 1200 ± 300 | 1300 ± 300 | 1500 ± 300 | 1700 ± 400 |
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| **Supplementary File 1b. The Steady-State Kinetic Parameters for Pure Wild Type SARM1 TIR with Varied Enzyme Concentration** |
|  | 500 nM PEG | 1 µMPEG | 2.5 µMPEG | 5 µMPEG | 10 µMPEG | 10 µM | 20 µM |
| *K*m (µM) | 1600 ± 600 | 800 ± 30 | 230 ± 30 | 380 ± 70  | 500 ± 90 | 1700 ± 600 | 1200 ± 200 |
| *k*cat (s-1) | 0.24 ± 0.04  | 0.19 ± 0.03 | 0.51 ± 0.01  | 0.68 ± 0.04 | 0.86 ± 0.06 | 0.0004 ± 0.0001 | 0.0023 ± 0.0002 |
| *k*cat/*K*m (M-1s-1) | 150 ± 70  | 240 ± 10 | 2200 ± 30 | 1800 ± 70 | 1700 ± 70  | 0.24 ± 0.01 | 1.9 ± 1 |
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