**Figure 1-Source Data 3**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Model 1** | **Model 2** | **Model 2** |
|  |  |  |  |
| Schematica | A picture containing icon  Description automatically generated | A picture containing text  Description automatically generated | Icon  Description automatically generated with low confidence |
| BIC*b* | 3.72E+03 ± 2.12E+02 | 3.48E+03 ± 2.47E+02 | 3.54E+03 ± 2.49E+02 |
| ∆⟨BIC⟩c | 249 | 0 | 691 |
|  |  |  |  |
| Rates |  |  |  |
| U 🡪 B (M-1, s-1) | 2.7E-03 ± 1.6E-04 | 3.2E-03 ± 2.0E-04 | 9.2E-05 ± 9.1E-05 |
| B 🡪 U (s-1) | 3.8E-02 ± 2.2E-03 | 1.0E-01 ± 1.2E-02 | 5.1E-04 ± 5.1E-04 |
| B 🡪 B\* (s-1) |  | 8.4E-03 ± 3.2E-03 | 9.5E-03 ±1.5E-03 |
| B\* 🡪 B (s-1) |  | 6.3E-03 ± 1.8E-03 | 1.5E-02 ± 4.4E-03 |
| U 🡪 B\* (M-1, s-1) |  |  | 3.1E-03 ± 2.8E-04 |
| B\* 🡪 U (s-1) |  |  | 1.3E-01 ± 1.6E-02 |

a U is unbound, B is short-lived bound state, and B\* is the long-lived bound state.

b Values reported as mean ± standard deviation of Bayesian information criterion (BIC) scores across a 5-fold resampling of the data

c Average BIC score across resampled data minus the minimum average BIC score.