S2 Table. r*Av*PAL-PEG Data for Arrhenius Plot (TBS + Phe).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **Phe (mM)** | **Phe:PAL** | **-kdecay 40°C, n=6** | **-kdecay 37°C, n=9** | **-kdecay 25°C, n=12** | **-kdecay 16°C, n=3** | **-kdecay 4°C, n=12** | **Ea(decay) kJ/mol** |
| 1 | 1 | 5:1 |  | 0.0424 | 0.0133 |  | NMD 1 | 74.2 |
| 2a | 1 | 5:1 |  | 0.0389 |  |  | 0.0007 | 86.9 |
| 2a | 2.5 | 12.5:1 |  | 0.0315 |  |  | NMD |  |
| 2b | 0.4 | 2:1 |  |  | 0.0106 |  | NMD |  |
| 2b | 1 | 5:1 |  |  | 0.0145 |  | 0.0012 | 81.4 |
| 2b | 2 | 10:1 |  |  | 0.0084 |  | 0.0004 | 99.5 |
| 3 | 0.4 | 2:1 |  | 0.0467 | 0.0090 |  | NMD | 105.4 |
| 3 | 1 | 5:1 |  | 0.0398 | 0.0100 |  | NMD | 88.4 |
| 4 | 0.5 | 1.5:1 | 0.0478 | 0.0523 | 0.0182 | 0.0062 | 0.0054 | 50.4 |
| 4 | 1 | 3:1 | 0.0483 | 0.0436 | 0.0183 | 0.0121 | NMD | 45.2 |
| 4 | 2 | 6:1 | 0.0466 | 0.0455 | 0.0156 | 0.0082 | 0.0004 | 91.0 |
| 5 | 1 | 3:1 |  | 0.0538 |  |  | NMD |  |
| 6 | 1 | 6:1 | 0.0451 |  | 0.0148 |  |  | 57.6 |
| 6 | 1 | 6:1 | 0.0602 |  | 0.0217 |  |  | 52.8 |
| 7 | 1 | 6:1 | 0.1069 |  | 0.0205 |  | 0.0033 | 68.7 |
| Average |  |  | 0.0592 | 0.0438 | 0.0146 | 0.0088 | 0.0019 | 75.64 2 |
| SEM |  |  | 0.0098 | 0.0023 | 0.0013 | 0.0017 | 0.0008 | 5.03 2 |

1NMD = No measurable decay; Blank = No sample at that condition

2Average Ea(decay) was determined by the best-fit slope of all data plotted on an Arrhenius plot as determined by a non-linear regression algorithm using Graphpad Prism software. SEM = Standard Error of Mean