**Figure 3—source data 2– Degradation of substrates of varying thermodynamic stability**

In columns 2-3, degradation rates are mean degradation rates from 3-4 technical replicates ± 1 SD. In column 4, the fractional rates were calculated from dividing the mean A–P degradation rate by the mean A•P degradation rate, and the error is a propagated error calculated using the following formula:

$$propagated error for fractional rate=\frac{rate A–P}{rate A•P}\*sqrt\left(\left(\frac{Stdev A•P}{rate A•P}\right)^{2}+\left(\frac{Stdev A–P}{rate A–P}\right)^{2}\right)$$

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Protein substrate** | **A•P degradation rate (min-1 ClpA6-1)** | **A–P degradation rate****(min-1 ClpA6-1)** | **Fractional rate****(A­–P/ A•P)** | ***n*** |
| FITC-casein | 7.34 ± 0.23 | 7.11 ± 0.44 | 0.97 ± 0.07 | 3 |
| 5-IAFV13P titinI27-ssrA | 5.56 ± 0.15 | 2.57 ± 0.07 | 0.46 ± 0.02 | 4 |
| cp7GFP-ssrA | 2.72 ± 0.12 | 0.86 ± 0.11 | 0.32 ± 0.04 | 4 |
| λ clN-ssrA | 1.93 ± 0.28 | 0.60 ± 0.05 | 0.31 ± 0.05 | 3 |