### Figure 5—Source Data 2. Affinities of H2THand KGRR mutants for supercoiled and sheared salmon-sperm DNA as compared to wildtype presented in Figure 1.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Substrate | Enzyme construct | | | | |
|  | wildtype | KGRRAAA | KGRREEE | H2THAAA | H2THEEE | |
| KI,app of Supercoiled DNA (nM) | 0.6±0.3 | 7.2 ±1.6 | 14.7±1.3 | 1.3±1.1 | 10.0±0.9 | |
| KI,app of sheared salmon-sperm DNA (nM) | 39.3±2.6 | 161.7 ±11 | 181.7±10.0 | 54.4±13.1 | 52.1±2.8 | |
| Preference for supercoiled DNA | ~60x | ~20x | ~12x | ~40x | ~5x | |

\*Standard errors in fit parameters are reported.