**Supplementary File 3. Dissociation constants for ABI1-derived peptides binding to ENAH EVH1 domain.** Errors reported as the standard deviation of two or three replicates.

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| --- | --- | --- |
| **Name** | **Sequence** | **KD (μM)**a |
| ABI1  | FDD**FPPPP**PPPPVDYEDEEAAVVQYNDPYADGDPAW | 2.4 $\pm $ 0.1 |
| ABI1 b | FDD**FPPPP**PPPPVDYEDEEAAV | 3.9 $\pm  $0.9 |
| ABI1 a | FDD**FPPPP**PPPPVDYED | 4.3 $\pm  0.2$ |
| ABI1 ala | FDD**FPPPP**PPPPVAYAA | 8.5 $\pm $ 0.9 |
| FDDFP8 | FDD**FPPPP**PPPP | 9.5 $\pm $ 0.9 |
| FP8 |  **FPPPP**PPPP | 28.4 $\pm $ 5.7 |
| FP4S4 |  **FPPPP**SSSS | 110 $\pm $ 9.2 |

a Affinities determined by BLI as described in the methods.