



Sensorgrams (upper charts) and steady-state fit (lower charts) obtained for each replicate of peptide **7** / Phd_{STm}⁵²⁻⁷³ I59A (analyte) binding to Doc_{STm} (ligand). The analyte was flown in multiple individual cycles, ranging from 500 nM to 7.8125 nM (2-fold dilutions) for replicates 1 and 2 and from 500 nM to 2.06 nM (3-fold dilutions) for replicate 3. The association and dissociation times were 80 s and 200 s, respectively.

Summary of the fitted parameters obtained from each SPR measurement of peptide **7**.

Replicate	K _D (nM)	R _{MAX} (RU)	Offset (RU)	Chi ² (RU ²)
1	25.40 ± 3.00	22.3 ± 0.7	-1.20 ± 0.86	0.113
2	19.35 ± 2.20	24.1 ± 0.9	-1.70 ± 1.00	0.099
3	15.10 ± 0.09	15.4 ± 0.2	0.00 ± 0.22	0.021