

Sensorgrams obtained for each replicate of peptide 5 / Phd_{STm}⁵²⁻⁷³ E55A (analyte) binding to Doc_{STm} (ligand). Six concentrations of the analyte were flown over the surface in a single cycle, ranging from 100 nM to 0.412 nM (3-fold dilutions) for replicates 1 and 2, and 50 nM to 0.206 nM (3-fold dilutions) for replicate 3. The association and dissociation times were 80 s and 1000 s, respectively.

Summary of the fitted parameters obtained from each SPR measurement of peptide 5.

Replicate	kon (M-1 s-1)	koff (s-1)	K _D (pM)	R _{MAX} (RU)	tc (RU M ⁻¹ s ⁻¹)	Chi ² (RU ²)	U-value
1	$1.453 \pm 0.003 \times 10^6$	$7.105 \pm 0.084 \times 10^{-5}$	48.9	46.6 ± 0.02	$1.410 \pm 3.800 \times 10^{13}$	1.390	7
2	$1.461 \pm 0.003 \times 10^6$	$7.493 \pm 0.082 \times 10^{-5}$	51.3	47.4 ± 0.02	$7.999 \pm 8.400 \times 10^{12}$	1.370	7
3	$1.711 \pm 0.003 \times 10^6$	$8.018 \pm 0.068 \times 10^{-5}$	46.9	40.1 ± 0.02	$3.497 \pm 88.00 \times 10^{13}$	0.627	5