

Sensorgrams obtained for each replicate of peptide $6 / Phd_{STm}^{52-73}$ F56A (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). In all replicates the association time was 80s. The dissociation times were 1000 s for replicates 1 and 2 and 400 s for replicate 3.

Replicate	kon (M ⁻¹ s ⁻¹)	koff (s ⁻¹)	K _D (pM)	RMAX (RU)	tc (RU M ⁻¹ s ⁻¹)	Chi ² (RU ²)	U-value
1	$7.135 \pm 0.010 \times 10^{5}$	$7.167 \pm 0.008 \times 10^{\text{4}}$	1000	34.1 ± 0.01	$1.322 \pm 0.850 \times 10^{13}$	0.285	1
2	$7.641 \pm 0.010 \times 10^5$	$7.021 \pm 0.007 \times 10^{\text{4}}$	919	35.8 ± 0.01	$5.990 \pm 3.730 \times 10^{10}$	0.257	1
3	$14.90 \pm 0.03 \times 10^{5}$	$11.10 \pm 0.03 \times 10^{\text{4}}$	745	27.6 ± 0.01	$2.910 \pm 2.760 \times 10^{13}$	0.237	1