

Sensorgrams obtained for each replicate of peptide $17 / Phd_{STm}^{52-73} L70A$ (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 (nM)	RMAX (RU)	tc (RU M ⁻¹ s ⁻¹)	Chi ² (RU ²)	U-value
1	$2.873 \pm 0.027 \times 10^{6}$	$6.019 \pm 0.059 \times 10^{\text{-3}}$	2.10	28.4 ± 0.04	$1.078 \pm 0.008 \times 10^{7}$	0.464	2
2	$3.197 \pm 0.035 \times 10^{6}$	$6.343 \pm 0.075 \times 10^{\text{-3}}$	1.98	30.3 ± 0.04	$1.034 \pm 0.008 \times 10^{7}$	0.584	2
3	$5.440 \pm 0.089 \times 10^{6}$	$5.540 \pm 0.079 \times 10^{\text{-3}}$	1.02	23.2 ± 0.04	$2.390 \pm 0.044 \times 10^{7}$	0.730	3