

Sensorgrams obtained for each replicate of peptide $15 / Phd_{STm}^{52-73}$ R68A (analyte) binding to Doc_{STm} (ligand). Six concentrations of the analyte were flown over the surface in a single cycle, ranging from 50 nM to 0.206 nM (3-fold dilutions). In all replicates the association time was 80s. The dissociation times were 1300 s for replicate 1 and 2, and 1200 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	$1.951 \pm 0.003 \times 10^{6}$	$2.436 \pm 0.005 \times 10^{\text{4}}$	124	27.6 ± 0.01	$6.39 \pm 22.00 \times 10^{12}$	0.245	1
2	$1.566 \pm 0.002 \times 10^{6}$	$1.662 \pm 0.004 \times 10^{\text{4}}$	106	20.8 ± 0.01	$8.020 \pm 2.600 \times 10^{12}$	0.118	2
3	$1.290 \pm 0.004 \times 10^{6}$	$1.440 \pm 0.003 \times 10^{\text{4}}$	112	26.1 ± 0.01	$2.240 \pm 0.024 \times 10^{7}$	0.073	1

Summary of the fitted parameters obtained from each SPR measurement of peptide 15.