

Sensorgrams obtained for each replicate of peptide 18 / Phd_{STm}⁵²⁻⁷³ D72A (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 1000 s for replicates 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	$1.397 \pm 0.002 \times 10^{6}$	$0.7430 \pm 0.0069 \times 10^{\text{-4}}$	53.2	35.7 ± 0.01	$1.189 \pm 1.800 \times 10^{15}$	0.506	5
2	$3.007 \pm 0.005 \times 10^{6}$	$0.5670 \pm 0.0066 \times 10^{4}$	18.9	24.7 ± 0.01	$7.652 \pm 15.000 \times 10^{12}$	0.245	7
3	$3.120 \pm 0.003 imes 10^{6}$	$1.200 \pm 0.003 imes 10^{-4}$	38.5	30.2 ± 0.01	$5.850 \pm 5.030 \times 10^{13}$	0.142	2

Summary of the fitted parameters obtained from each SPR measurement of peptide 18.