



Sensorgrams obtained for each replicate of peptide **4** / Phd_{STM}⁵²⁻⁷³ D54A (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). The association times were 80s for replicates 1 and 2 and 200 s for replicate 3. In all replicates the dissociation time was 1200 s.

Summary of the fitted parameters obtained from each SPR measurement of peptide **4**.

Replicate	k_{on} ($M^{-1} s^{-1}$)	k_{off} (s^{-1})	K_D (pM)	R_{MAX} (RU)	t_c ($RU M^{-1} s^{-1}$)	χ^2 (RU^2)	U-value
1	$4.580 \pm 0.008 \times 10^6$	$5.840 \pm 0.050 \times 10^{-5}$	12.8	31.1 ± 0.01	$3.560 \pm 3.570 \times 10^{14}$	0.388	5
2	$4.890 \pm 0.007 \times 10^6$	$8.120 \pm 0.046 \times 10^{-5}$	16.6	30.6 ± 0.01	$2.390 \pm 2.430 \times 10^{13}$	0.347	5
3	$4.730 \pm 0.008 \times 10^6$	$4.760 \pm 0.049 \times 10^{-5}$	10.1	30.2 ± 0.01	$4.950 \pm 9.790 \times 10^{12}$	0.365	7