



Sensorgrams obtained for each replicate of peptide **2** / Phd_{STM}⁵²⁻⁷³ M52A (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) for replicates 1 and 2, and 50 nM to 0.206 nM (3-fold dilutions) for replicate 3. The association and dissociation times were 80 s and 1000 s, respectively.

Summary of the fitted parameters obtained from each SPR measurement of peptide **2**.

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	$1.039 \pm 0.002 \times 10^6$	$5.437 \pm 0.066 \times 10^{-5}$	52.3	44.9 ± 0.02	$1.311 \pm 0.500 \times 10^{12}$	0.777	7
2	$1.072 \pm 0.002 \times 10^6$	$5.126 \pm 0.065 \times 10^{-5}$	47.8	45.3 ± 0.02	$2.159 \pm 0.850 \times 10^{12}$	0.792	7
3	$1.297 \pm 0.002 \times 10^6$	$7.143 \pm 0.057 \times 10^{-5}$	55.1	36.7 ± 0.01	$1.249 \pm 6.100 \times 10^{13}$	0.367	5