



Sensorgrams (upper charts) and steady-state fit (lower charts) obtained for each replicate of peptide **10** / Phd<sub>STm</sub><sup>52-73</sup> H63A (analyte) binding to Doc<sub>STm</sub> (ligand). Six concentrations of the analyte were flown in multiple individual cycles, ranging from 500 nM to 2.06 nM (3-fold dilutions). The association and dissociation times were, respectively, 100 s and 300 s. For replicate 3 the association and dissociation times were, respectively, 80 s and 200 s

Summary of the fitted parameters obtained from each SPR measurement of peptide **10**.

Replicate	K <sub>D</sub> (nM)	R <sub>MAX</sub> (RU)	Offset (RU)	Chi <sup>2</sup> (RU <sup>2</sup> )
1	12.17 ± 1.8	24.5 ± 0.9	0.80 ± 0.97	0.318
2	13.08 ± 1.40	23.4 ± 0.6	1.00 ± 0.67	0.168
3	40.00 ± 2.87	14.3 ± 0.2	0.80 ± 0.18	0.032