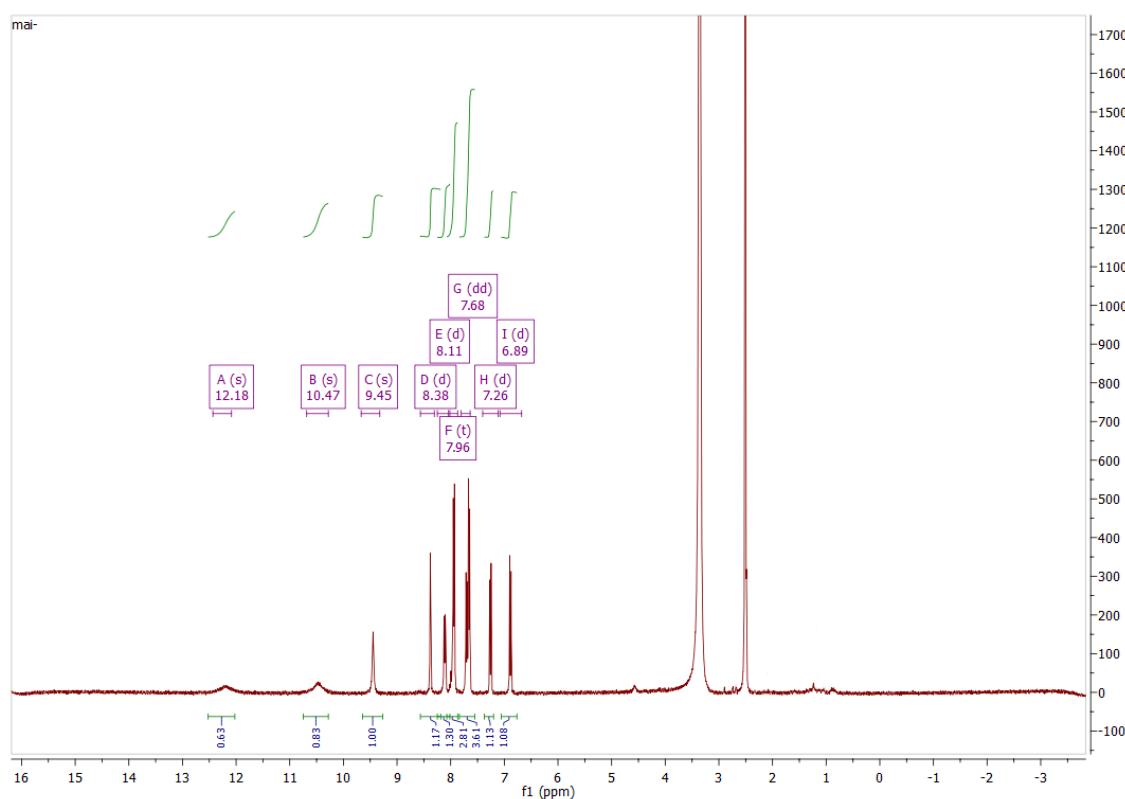
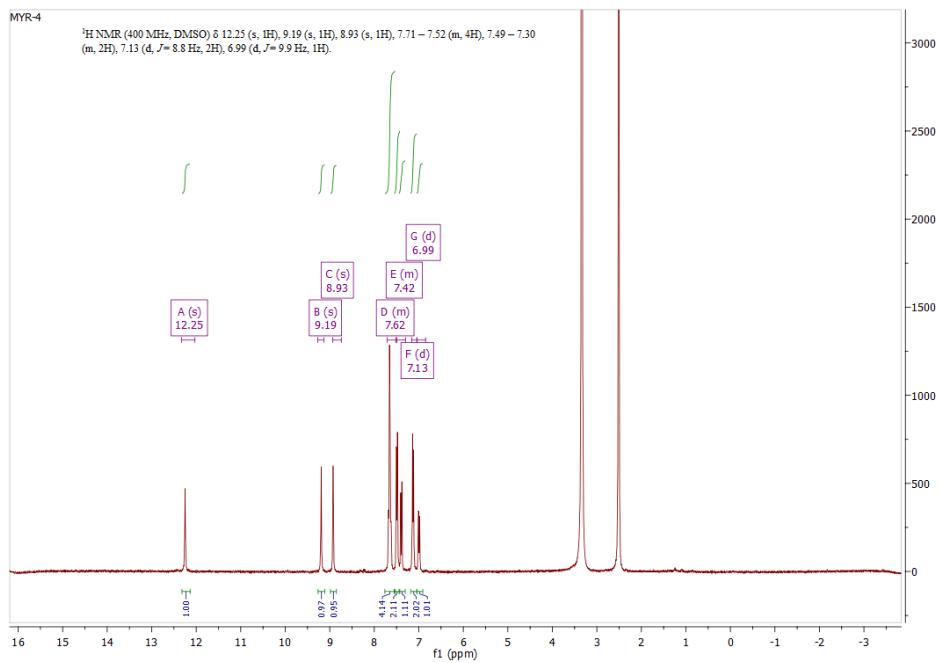


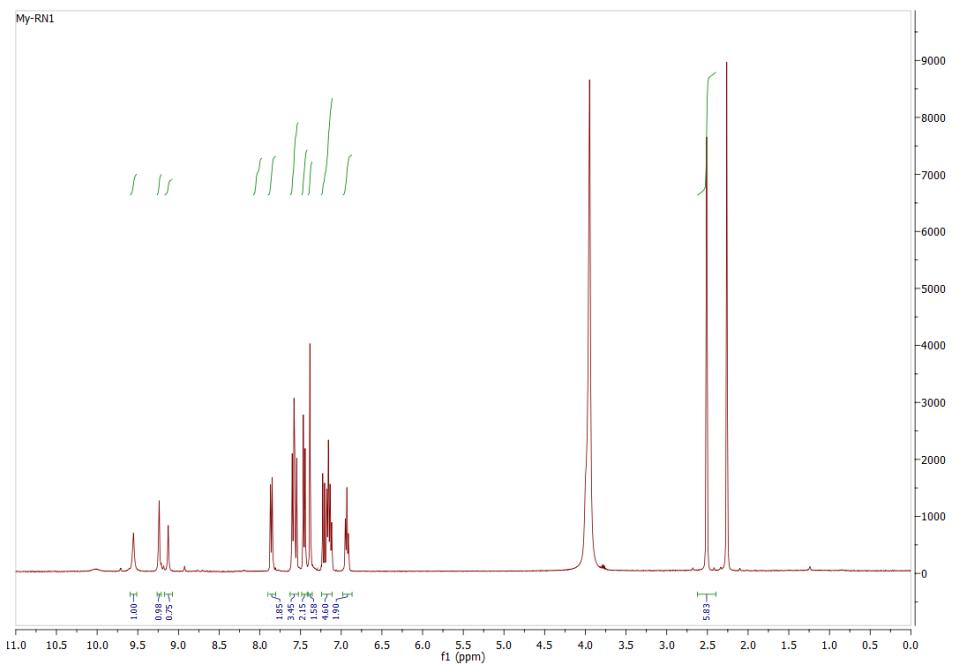
11b



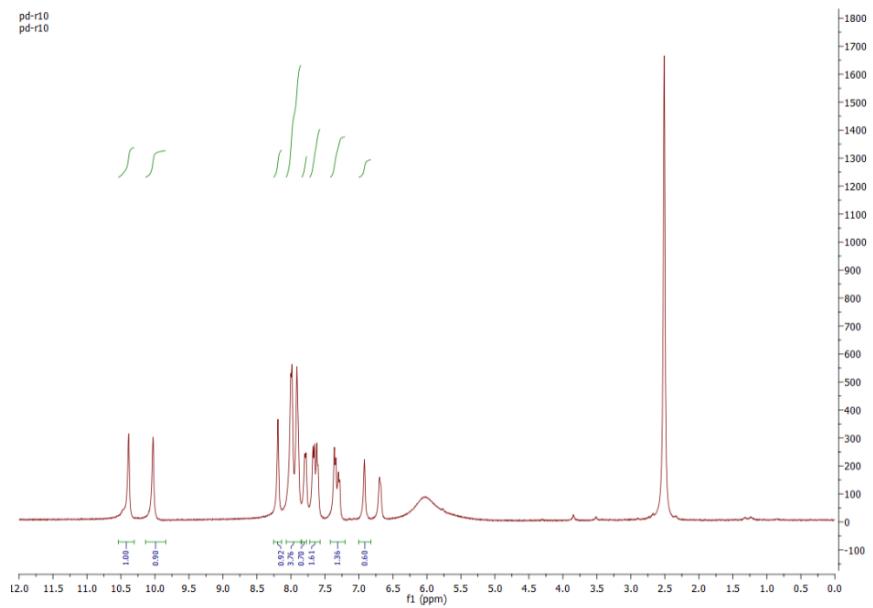
11c



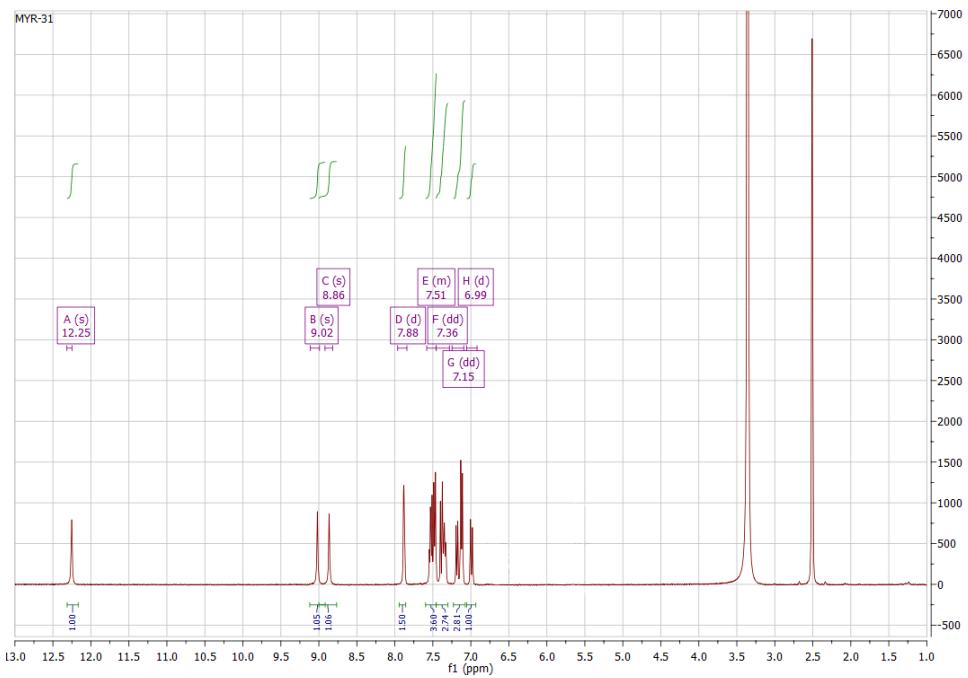
11d



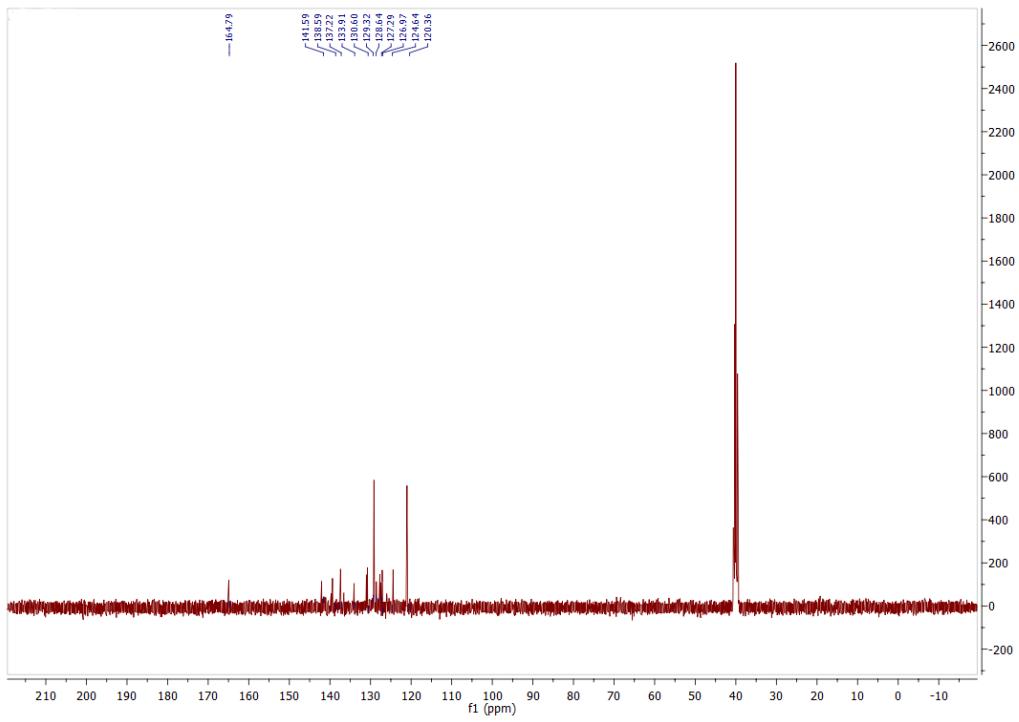
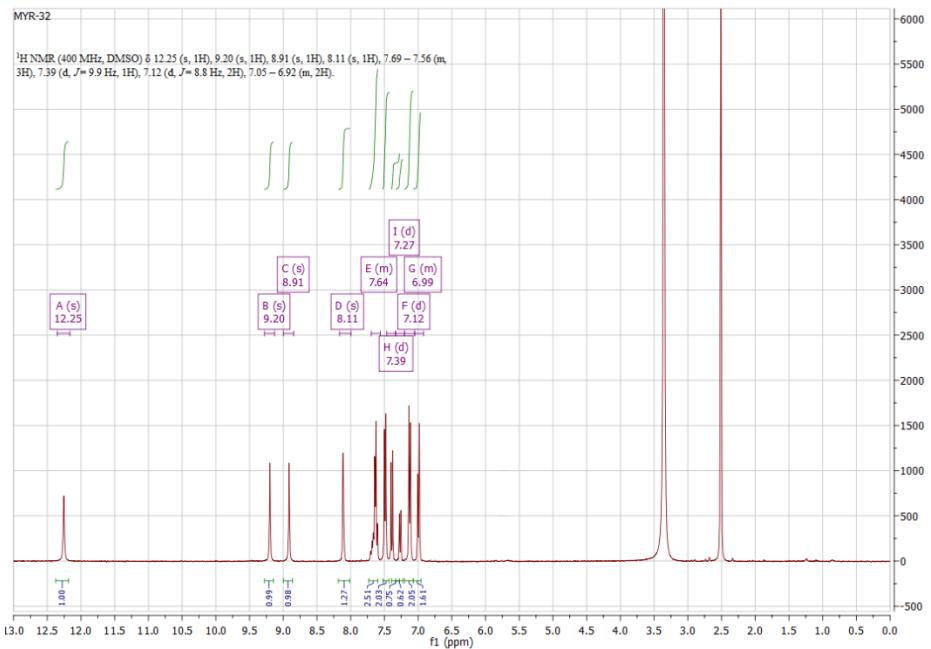
11e



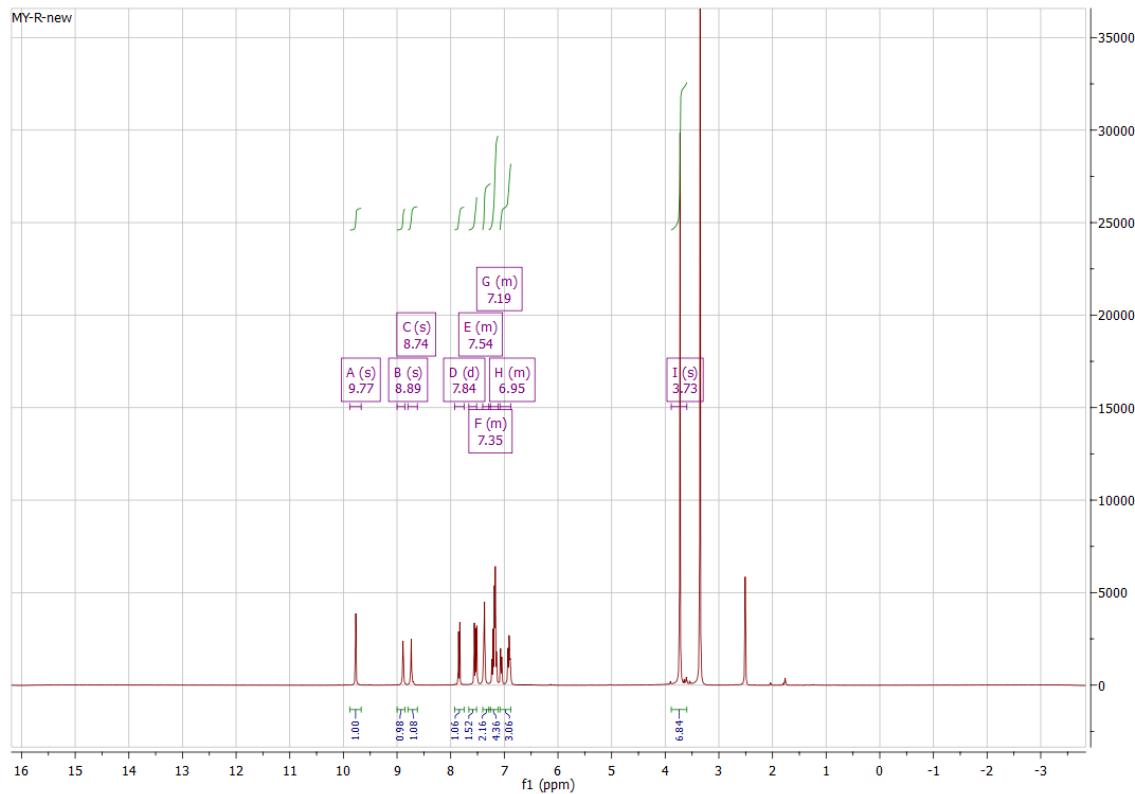
18c



18b



18a



S1 Dose response curves for measurement of VEGFR-2 inhibitory activity (IC_{50}).

S2: The relaxed potential energy surface scan of the torsional angel of the selected linker for compounds SORA, 11c, 15, 18b.

S3: Calculated (a) ligands and (b) receptors RMSD graphs for SORA, 11c and 18b over the 25ns MD trajectory.

S4: The per-residue decomposed lipophilic vdW binding energy of SORA, 11c and 18b over the 25ns MD trajectory calculated using the AMBER/MM-GBSA method in AMBER.

Fig S1:

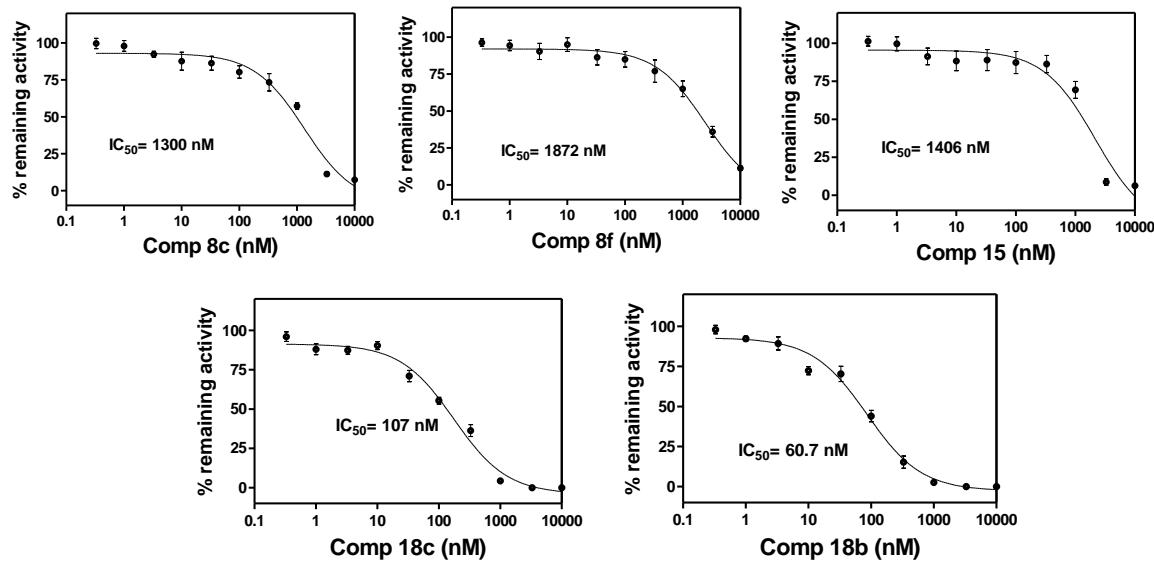


Figure S2

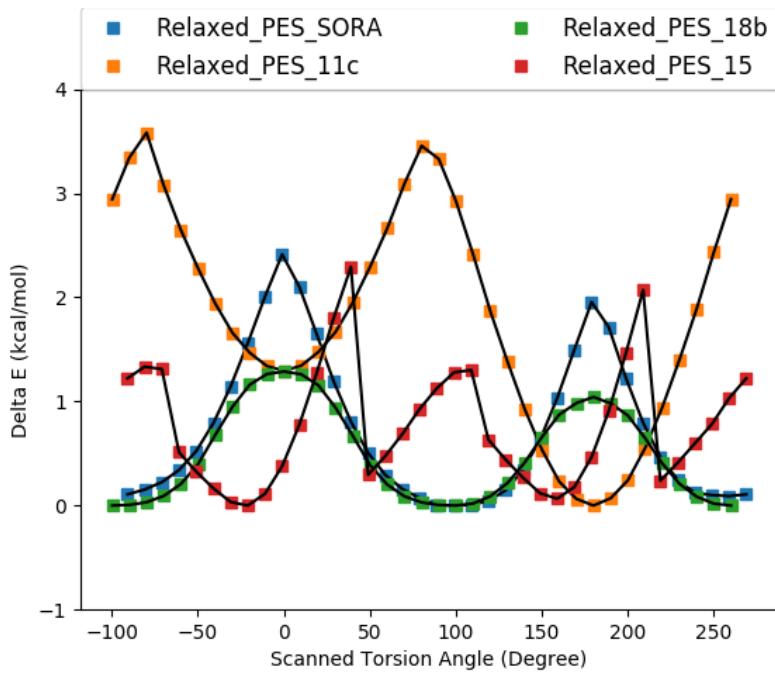


Figure S3:

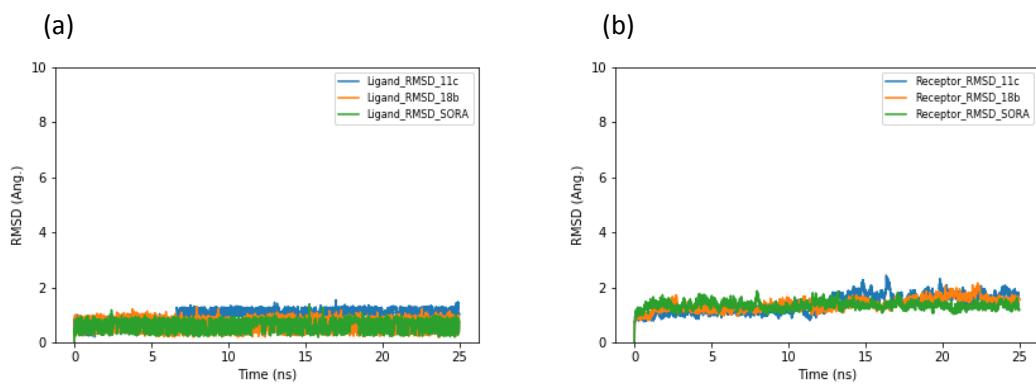


Figure S4

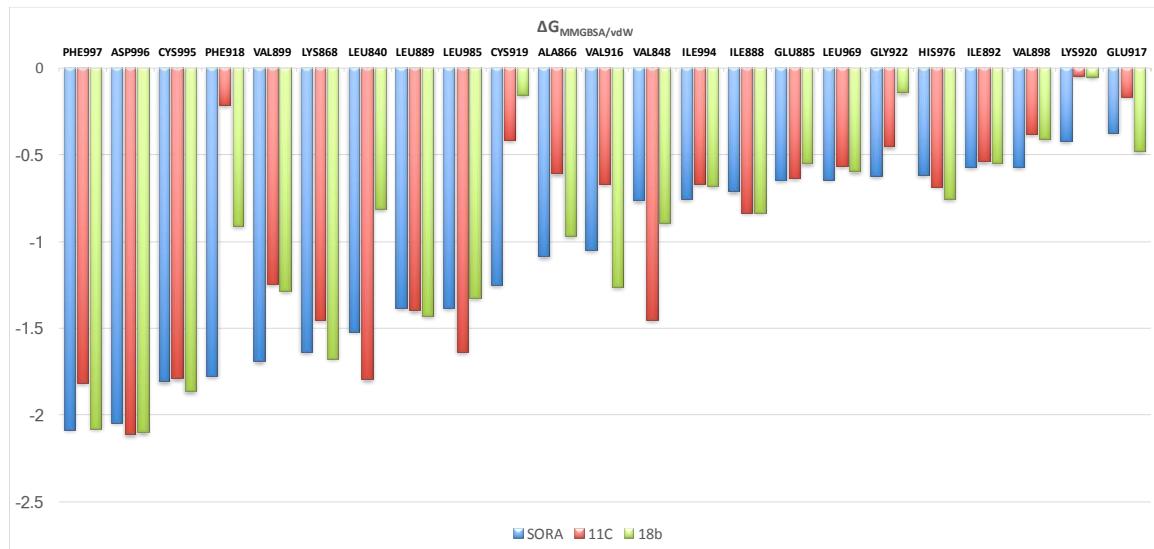


Table S1:

Selected measured and calculated activity parameters for the compounds under investigation (SORA). The AMBER/MM-GBSA scores and the H-bond occupancies are calculated over the 25ns MD simulation trajectory. Reported docking scores are for poses selected for carrying out the MD simulation. Please note that the VINA scores are reported in negative values and DLscores, NNscores and RFscores are reported in positive values.

Compound	IC50 (nm)	VINAscore	DLscore	NNscore2	RFscore	$\Delta G_{MM\text{-}GBSA}$	$\Delta G_{MM\text{-}GBSA/ELE}$	$\Delta G_{MMGBSA/vdW}$	CYS919-H-Bond Occ.	ASP996-H-Bond Occ.
SORA	90	-11.20	8.38	8.63	8.39	-46.87	-37.95	-59.72	86.34%	99.95%
11C	NA	-9.83	7.72	8.20	8.37	-36.97	-29.12	-51.84	NA	99.90%
18B	60.7	-10.79	7.61	8.38	8.28	-43.38	-39.98	-51.61	98.40%	99.90%

