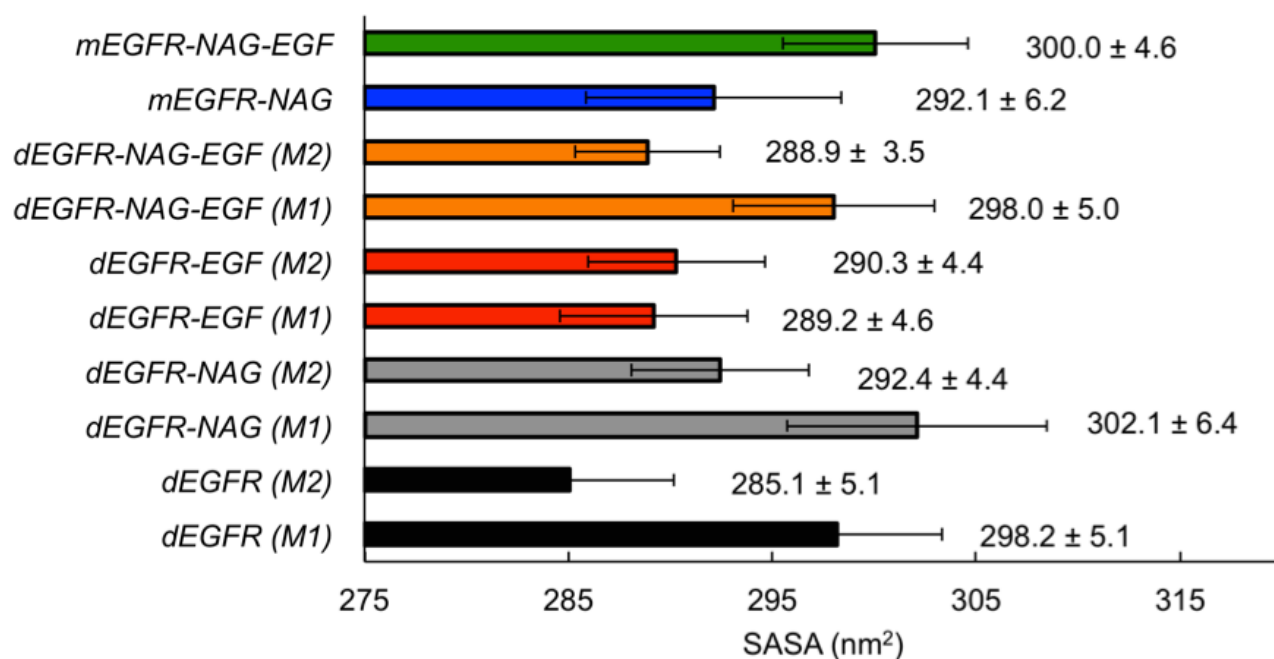


## Supplementary data

### Conformational stability of the epidermal growth factor (EGF) receptor as influenced by glycosylation, dimerization and EGF hormone binding



**Figure S1.** Average solvent accessible surface area (SASA) of each EGFR system. Values at ends of bars are an average of the 50 ns MD simulation ( $\pm$  SD). M1 = Monomer 1; M2 = Monomer 2. *dEGFR* = dimeric EGFR; *dEGFR<sup>NAG</sup>* = dimeric, glycosylated EGFR; *dEGFR<sup>EGF</sup>* = dimeric, ligand-bound EGFR; *dEGFR<sup>NAG-EGF</sup>* = dimeric, glycosylated, ligand-bound EGFR; *mEGFR<sup>NAG</sup>* = monomeric, glycosylated EGFR; and *mEGFR<sup>NAG-EGF</sup>* = monomeric, glycosylated, ligand-bound EGFR.

**Table S1.** Summary of secondary structural properties of simulated EGFR.

System	Residues	Structural Properties % average ( $\pm$ SD)				SASA at 50 ns (M1, M2)
		$\alpha$ -helix	$\beta$ -sheet	coil	turn	<i>nm</i>
<i>dEGFR</i>	1020	5.6 (0.8)	23.1 (1.2)	32.7 (0.9)	11.1 (1.4)	301.3, 279.9
<i>dEGFR-NAG</i>	1020	3.9 (0.6)	23.2 (2.3)	34.3 (1.3)	11.1 (1.3)	295.5, 283.0
<i>dEGFR-EGF</i>	1020	3.8 (0.6)	22.1 (1.3)	33.3 (1.4)	12.2 (1.2)	293.2, 293.9
<i>dEGFR-NAG-EGF</i>	1020	5.1 (0.8)	20.9 (1.0)	33.6 (0.9)	11.6 (1.1)	296.7, 282.8
<i>mEGFR-NAG</i>	510	3.3 (1.3)	20.1 (1.6)	37.1 (2.3)	10.5 (2.0)	296.0
<i>mEGFR-NAG-EGF</i>	510	5.0 (1.4)	21.3 (1.9)	34.1 (1.3)	10.1 (1.6)	300.5

SASA = solvent accessible surface area, M1 = Monomer 1, and M2 = Monomer 2. *dEGFR* = dimeric EGFR; *dEGFR<sup>NAG</sup>* = dimeric, glycosylated EGFR; *dEGFR<sup>EGF</sup>* = dimeric, ligand-bound EGFR; *dEGFR<sup>NAG-EGF</sup>* = dimeric, glycosylated, ligand-bound EGFR; *mEGFR<sup>NAG</sup>* = monomeric, glycosylated EGFR; and *mEGFR<sup>NAG-EGF</sup>* = monomeric, glycosylated, ligand-bound EGFR.