

## Supplementary Information

### Direct protein quantification in complex sample solutions by surface-engineered nanorod probes

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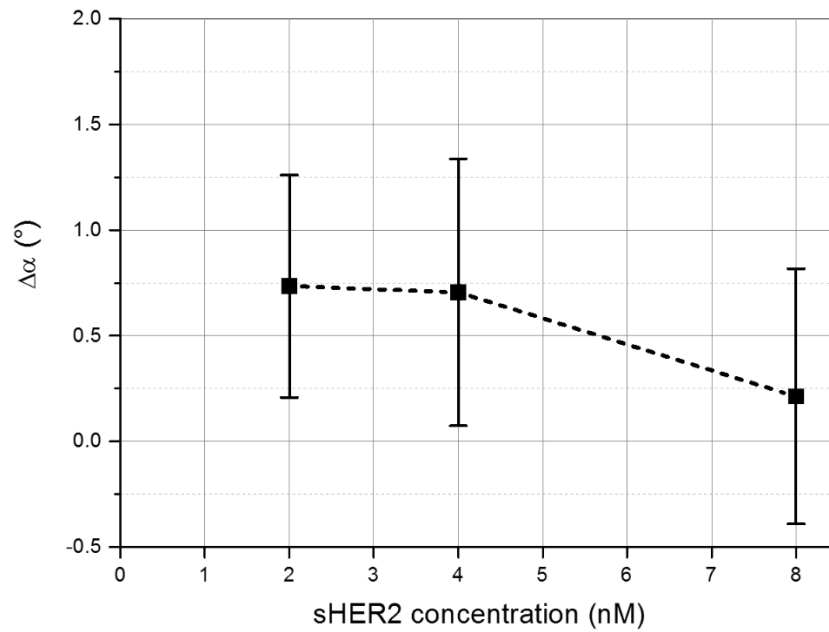
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**Figure S1.** Measurement signal in 10-fold diluted serum samples at different spiked sHER2 analyte concentrations.

case #	primary antibody	secondary antibody	phase diff. (°)	error phase diff. (°)
A	Ab-b	Ab-b	10.48	0.44
B	Ab-a	Ab-b	8.63	0.39
C	Ab-b	Ab-a	3.64	1.01
D	Ab-a	Ab-a	0.56	0.61

saliva content (%)	sHER2 conc. (nM)	phase diff. (°)	error phase diff. (°)
5	0.5	4.78	0.90
10	1	9.68	0.64
20	2	9.35	1.05
40	4	7.12	1.02