

	Aggregation	$\Delta\Delta G_{ppI}$	Control variables	
			$C$	$F$
$\Delta\Delta G_{ppI}$	0.11*	-	0.11*	0.02
$C$	-0.11*	-0.10*	-	-0.03
$F$	-0.15*	-0.11*	-0.10*	-

**TABLE S2:** The second column reports the spearman rank correlation between the TANGO aggregation propensity and  $\Delta\Delta G_{ppI}$ , total protein concentration  $C$ , and LMA estimated free monomer concentration  $F$ . The Asterix implies  $p < 10^{-3}$ . The third column reports the partial correlation between aggregation propensity and  $C$  and  $F$  when  $\Delta\Delta G_{ppI}$  is controlled. The fourth column reports the partial correlation between aggregation propensity and  $\Delta\Delta G_{ppI}$  and  $F$  when  $C$  is controlled and finally, the fifth column reports the partial correlation between aggregation propensity and  $\Delta\Delta G_{ppI}$  and  $C$  when  $F$  is controlled. Note, the correlation between aggregation propensity and estimated free monomer concentration is statistically significant even after controlling for total concentration.