Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2017

## **Supporting Information**

**S1 Table 1.** Boltzmann Distributions of the hydrated GA conformers and relative Gibbs free energies (kJ mol<sup>-1</sup>)

Calculated conformer	$\Delta G^a$	%	$\Delta G^{\mathrm{b}}$	%
CC-W-1	0	72.5	0	72.9
CC-W-2	1.18	15.1	1.26	14.8
CC-W-3	2.93	8.3	3.12	8.4
CC-W-4	4.21	4.0	4.96	3.9
TG-W-5	10.8	0.9	11.32	0.8
TG-W-6	12.9	0	12.83	0
TT-W-7	13.2	0	13.4	0
TT-W-8	19.3	0	18.86	0
CT-W-9	25.3	0	24.2	0

Gibbs free energy values were estimated according to  $\Delta G$ =-RT ln K. Calculated from  $\Delta G$  with a temperature of 298 K.  $\Delta G^a$  obtained at  $\omega B97X$ -D/cc-pVTZ and  $\Delta G^b$  calculated at MP2/6-311+g(d,p) level with the G09W program package.