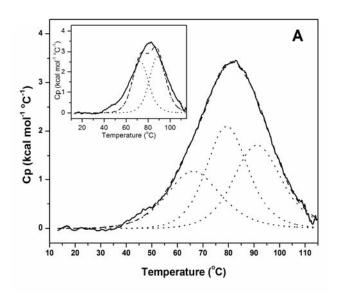
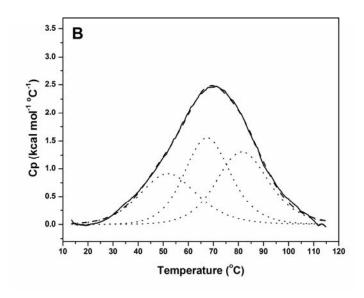
## FOLDING AND HOMODIMERIZATION OF WHEAT GERM AGGLUTININ

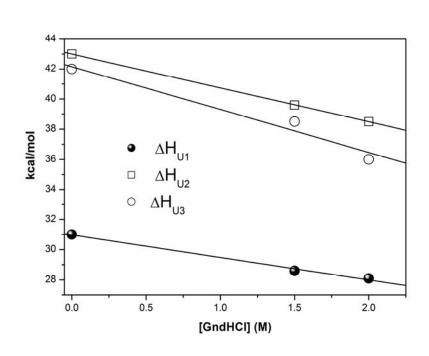
María del Carment Portillo-Téllez, Martiniano Bello, Guillermo

Salcedo, Gabriel Gutiérrez, Virginia Gómez-Vidales, and Enrique García-Hernández





**Fig. S1.** Deconvolution analysis of DSC endotherms of WGA (0.09 mM) at pH 2, 30 mM Gly/HCl, in varying concentrations of GndHCl: **(A)** 0 M and **(B)** 2 M. The best fitting to the calorimetric trace of a model of two independent transitions is shown in the inset of panel **(A)**.



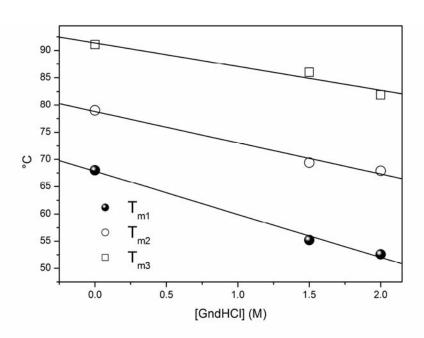
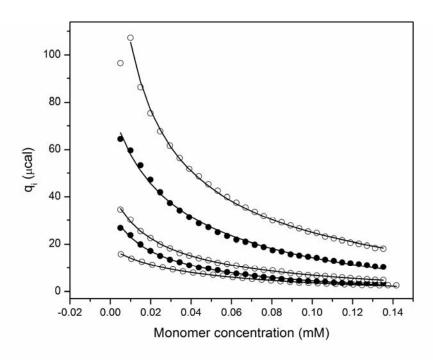


Fig. S2. Unfolding enthalpies (upper panel) and melting temperatures (lower panel) as a function of GndHCl concentration for each of the independent transitions exhibited by WGA monomer at pH 2 (Table 1).



**Fig. S3.** Isothermal dilution calorimetry. Dilution isotherms of WGA at pH 3 (50 mM Gly/HCl, 0.1 M NaCl) as a function of temperature (from bottom to top: 30, 33, 35, 40 and 43 °C). Consecutive 10-  $\mu$ l aliquots of 0.7-0.9 mM protein solution were diluted into 1.44 mL of buffer solution. Typically, a total of 30 injections were applied. The solid lines represent the best-fitting curves of a dimer dissociation model (equations 2-3).

**Table S1.** Independent *vs.* sequential unfolding parameters for the unfolding transitions exhibited by WGA monomer at pH 2, as determined by DSC

	1	2	3
Independent transitions			
$T_m$ (°C)	$68.0 \pm 0.7$	$79.0 \pm 0.6$	$91.1 \pm 0.4$
$\Delta H_{U}\left(kcal/mol\right)$	$31 \pm 2$	$43 \pm 3$	42 ± 1
Sequential transitions			
$T_{m}$ (°C)	$66.3 \pm 0.1$	$79.6 \pm 0.1$	$92.5 \pm 0.1$
$\Delta H_U$ (kcal/mol)	$34 \pm 2$	$44 \pm 2$	43 ± 1