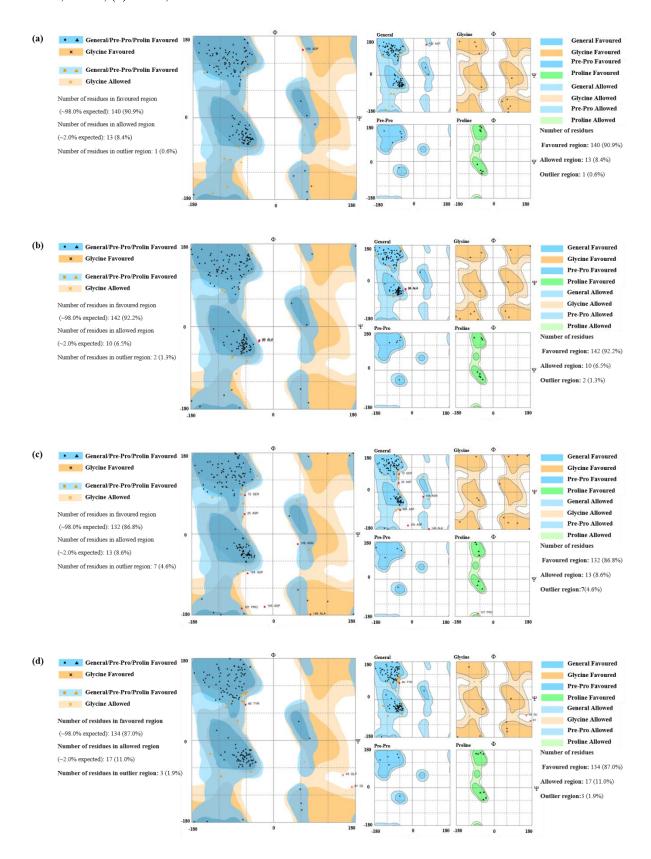
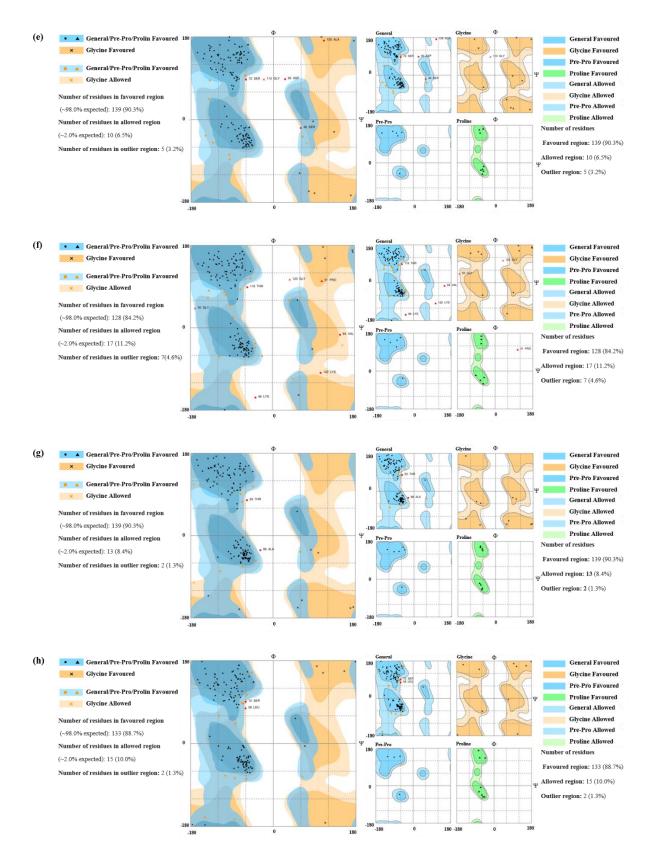
Supplementary Table 1. Changes in atomic properties of Gly m 4 allergen.

Temperature	Pressure	RMSD (nm)	Rg (nm)	SASA (nm ²)
300 K	1 bar	0.254 ± 0.03	1.543±0.011	88.27±2.21
	3 kbar	0.254 ± 0.026	1.532 ± 0.012	89.1±2.52
	6 kbar	0.252 ± 0.035	1.539±0.009	89.32±2.14
345 K	1 bar	0.275 ± 0.03	1.549±0.011	89.15±2.33
	3 kbar	0.285 ± 0.036	1.524 ± 0.01	84.78 ± 1.83
	6 kbar	0.265 ± 0.026	1.53 ± 0.008	86.09±1.86
373 K	1 bar	0.324±0.039	1.547±0.015	89.07±2.4
	3 kbar	0.278 ± 0.025	1.53 ± 0.01	85.27 ± 2.09
	6 kbar	0.257 ± 0.037	1.52 ± 0.016	85.42 ± 2.71

Supplementary Figure 1. Ramachandran plot and integrated plot of Gly m 4 at different conditions: (a) 300 K, 1 bar; (b) 300 K, 3 kbar; (c) 345 K, 1 bar; (d) 345 K, 3 kbar; (e) 345 K, 6 kbar; (f) 373 K, 1 bar; (g) 373 K, 3 kbar; (h) 373 K, 6 kbar.





Supplementary Figure 2. Similar progression of Rg and SASA of Gly m 4 allergen at 300 K and 6 kbar.

