

Table S3. Experimental thermodynamic parameters for GlxR proteins.

CAP Protein	ΔH_1 (kcal mol ⁻¹)	ΔH_2 (kcal mol ⁻¹)	ΔG_1 (kcal mol ⁻¹)	ΔG_2 (kcal mol ⁻¹)	$-T\Delta S_1$ (kcal mol ⁻¹)	$-T\Delta S_2$ (kcal mol ⁻¹)
Wild type	2.3 ±0.0 (18)	2.8 ±0.2(18)	-7.4 ±0.0 (18)	-5.7 ±0.0 (18)	-9.7 ±0.1 (18)	-8.5 ±0.1 (18)
L134V	4.8 ±0.1 (26)	2.5 ±0.1 (26)	-6.1 ±0.0 (26)	-5.3 ±0.0 (26)	-10.9 ±0.1 (26)	-7.8 ±0.1 (26)
A131V	-3.2 ±0.1 (30)	1.5 ±0.1 (30)	-6.5 ±0.1 (30)	-5.7 ±0.1 (30)	-3.3 ±0.1 (30)	-7.1 ±0.1 (30)

Mean values ± S.E.M. are given for wild type and mutant GlxR for the first and second cAMP binding events. *n* is provided in parentheses.