
Discrimination between cyclic nucleotides in a cyclic nucleotide-gated ion channel

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Discrimination between cyclic-nucleotides in a cyclic-nucleotide gated ion channel

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Supplementary Information

Table S1)

Method (DHS fit)	cN	$k_{off}(1/s)$	x_{β} (nm)	ΔG (k _B T)
20ms bond formation time	cAMP	1.2 ± 0.4	0.48 ± 0.08	10.4 ± 1.7
20ms bond formation time	cGMP	1.6 ± 0.3	0.69 ± 0.05	9.2 ± 1.3
1000ms bond formation time: State 1 bond	cAMP	1.1 ± 0.4	0.57 ± 0.07	9.7 ± 1.5
1000ms bond formation time: State 2 bond	cAMP	0.5 ± 0.2	0.48 ± 0.08	10.9 ± 2.0

Table S1) cN-CNBD binding kinetics fit parameter from using the DHS model.