

Supplemental table 2 Kinetic parameters for CyaA-ACD	
Forward reaction	$V_{\max} = 920 \text{ s}^{-1}$ $K_m = 0.8 \pm 0.3 \text{ mM}$ $K_{i(\text{PPi})} = 0.6 \pm 0.1 \text{ mM}^*$ $K_{i(\text{cAMP})} = 1.2 \pm 0.2 \text{ mM}^*$
Reverse reaction	$V_{\max} = 71 \text{ s}^{-1}$ $K_{d(\text{cAMP})} = 3.8 \text{ mM}^*$ $K_{d(\text{PPi})} = 2.0 \text{ mM}^*$

*The inhibitory and dissociation constants, K_i and K_d is the apparent K_i and K_d determined by kinetic analysis, not by direct binding assays. The adenylyl cyclase assays were performed in the presence of 2 μM free calcium concentration and 1 μM CaM (Guo et al J. Biol. Chem. 279:29427-29435, 2004).