



□	Unphosphorylated CKβ	$V_{\max}$ : $40.14 \pm 1.26$ U/mg
		$K_m$ : $0.62 \pm 0.072$ mM
■	Phosphorylated CKβ	$V_{\max}$ : $64.27 \pm 2.39$ U/mg
		$K_m$ : $0.42 \pm 0.065$ mM
◇	S39D/S40D CKβ	$V_{\max}$ : $60.42 \pm 2.14$ U/mg
		$K_m$ : $0.46 \pm 0.067$ mM

**S2 Fig. Effect of the phosphorylation mimic double-mutation on the catalytic activity of CKβ with choline as substrate, at constant ATP concentration (2 mM).** Each data point represents the average of three independent measurements.