

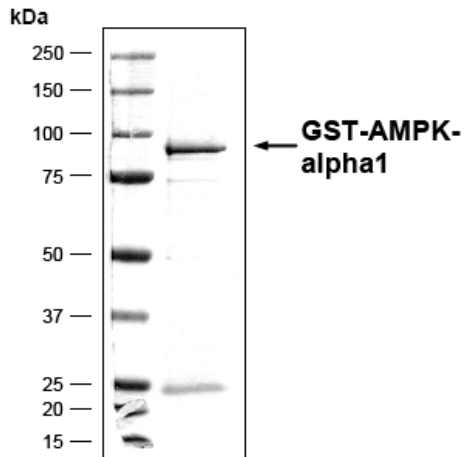
## PRKAA1

# Recombinant Human Protein Kinase AMP-Activated alpha 1 Catalytic Subunit (aa 1-550) GST-His-Tagged Active

<b>Catalog No.</b>	CRA019A CRA019B CRA019C	<b>Quantity:</b>	10 µg 100 µg 1.0 mg
<b>Alternate Names:</b>	AMP-activated Protein Kinase alpha 1, AMPKa, AMPK, AMPKa1		
<b>Description:</b>	<p>Recombinant human AMPK-alpha 1 containing amino acids M<sub>1</sub>-Q<sub>550</sub> (as in NCBI/Protein accession number NP_006242.1)*, N-terminally fused to GST-HIS<sub>6</sub>-Thrombin cleavage site.</p> <p>*More recent versions of the sequence (e.g. NP_006242.5) list 559 aa for AMPK-alpha 1, with 9 additional aa at the N-terminus (MRRLSSWRK). Sequence available upon request.</p>		
<b>Concentration:</b>	0.144 µg/mL		
<b>Gene ID:</b>	5562		
<b>Source:</b>	Sf9 cells		
<b>Molecular Weight:</b>	92.2 kDa		
<b>Formulation:</b>	Liquid in 50 mM Tris-HCl, 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol, pH 8.0		
<b>Purification:</b>	GST-Affinity chromatography		
<b>Specific Activity:</b>	<p>P<sub>i</sub> transfer: 37 pmol/µg x min, K<sub>M</sub> for ATP = 15 µM</p> <p>Method for determination of K<sub>M</sub> value and specific activity (filter binding assay):</p> <p>Assay conditions:</p> <p>60 mM HEPES-NaOH, pH 7.5</p> <p>3 mM MgCl<sub>2</sub></p> <p>3 mM MnCl<sub>2</sub></p> <p>3 µM Na-orthovanadate</p> <p>1.2 mM DTT</p> <p>2.5 µg / 50 µl PEG<sub>20,000</sub></p> <p>ATP (variable)</p> <p>Substrate: GABA(A) receptor beta2 subunit (aa 427-439) (SRLRRRASQLKIT), 10 µg / 50 µL</p> <p>Recombinant AMPK-alpha1: 200 ng / 50 µL</p>		
<b>Reconstitution:</b>	For complete recovery, mix well and spin before use.		
<b>Storage &amp; Stability:</b>	<p>Store in working aliquots at -80 °C. Product must not be stored in diluted solutions.</p> <p><b>Avoid repeated freeze-thaw cycles.</b></p>		

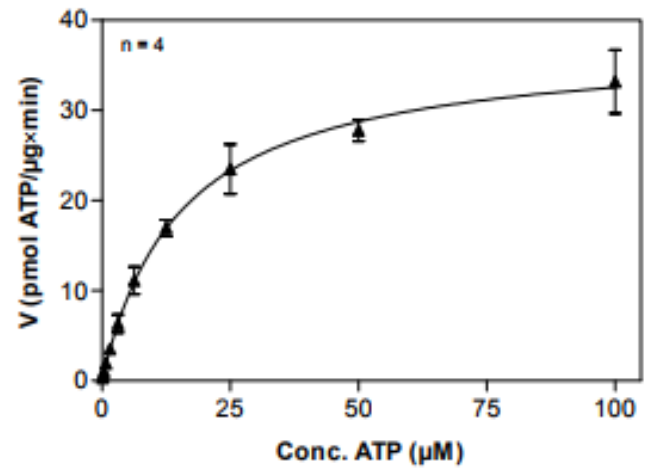


Coomassie stain:



2.0  $\mu$ g GST-AMPK-alpha1

Determination of  $V_{\max}$  and  $K_M$  value for ATP



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