

AMPK recombinant protein

AMPK (A2/B1/G1), Active

CATALOG # AAA73077	HOST Sf9 insect cells using baculovirus
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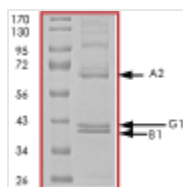
PRODUCT SYNONYMS

AMPK; AMPK (A2/B1/G1); Active; AMPK recombinant protein

PRODUCT SPECIFICATIONS

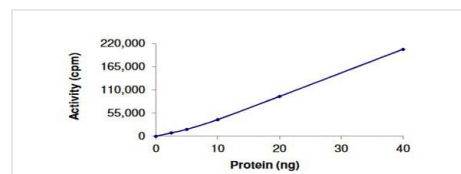
Host	Sf9 insect cells using baculovirus
Purity/Purification	>75%
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Concentration	0.1 ug/ul (varies by lot)
Sequence Positions	Full Length
Sequence Length	9369
Tag Information	C-Terminal His-Tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data

The purity of AMPK was determined to be >75% by densitometry, approximate MW ~69kDa (A2), ~38 kDa (B1), and ~40kDa (G1).



Application Data

The specific activity of AMPK was determined to be 280 nmol/min/mg as per activity assay protocol.

ADDITIONAL INFORMATION

Related Product Information for AMPK recombinant protein	Description: Recombinant full-length human AMPK (combination of A2/B1/G1 subunits) was expressed by baculovirus in Sf9 insect cells using a C-terminal His tags. Scientific Background: AMPK (A2/B1/G1) plays a key role in insulin signaling pathway and is a major therapeutic target for the treatment of diabetes (1). AMPK is viewed as a fuel sensor for glucose and lipid metabolism by modulating the activity of the autonomous nervous system in vivo. Short-term overexpression of a constitutively active form of AMPK in the liver leads to mild hypoglycemia and fatty liver due to increased fatty acid utilization (2).
Product Categories/Family for AMPK recombinant protein	Enzymes; Active Kinases

References	1. Viollet, B. et al: Physiological role of AMP-activated protein kinase (AMPK): insights from knockout mouse models. Biochem. Soc. Trans. 2003; 31; 216 -219. 2. Foretz, M. et al: Short-term overexpression of a constitutively active form of AMP-activated protein kinase in the liver leads to mild hypoglycemia and fatty liver. Diabetes, 2005; 54 (5);1331-1339.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	157909838
NCBI GeneID	5563
NCBI Accession #	NM_006252.3
NCBI GenBank Nucleotide #	NM_006252
UniProt Accession #	P54646; Q9H1E8; Q9UD43; AAB32732
Molecular Weight	~69kDa (A2); ~38kDa (B1); ~40kDa (G1)
NCBI Official Full Name	Homo sapiens protein kinase AMP-activated catalytic subunit alpha 2 (PRKAA2), mRNA
NCBI Official Synonym Full Names	protein kinase AMP-activated catalytic subunit alpha 2
NCBI Official Symbol	PRKAA2
NCBI Official Synonym Symbols	AMPK; AMPK2; PRKAA; AMPKa2
NCBI Protein Information	5'-AMP-activated protein kinase catalytic subunit alpha-2
UniProt Protein Name	5'-AMP-activated protein kinase catalytic subunit alpha-2
UniProt Gene Name	PRKAA2
UniProt Synonym Gene Names	AMPK; AMPK2; HMGCR kinase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/prkaa2-recombinant-protein-sf9-insect-cells-using-baculovirus/73077>