

AMPK (A2/B1/G1) Recombinant Protein | AMPK recombinant protein

AMPK (A2/B1/G1), Unactive

CATALOG # AAA73839	HOST Sf9 insect cells	APPLICATIONS Kinase Assay
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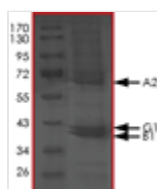
PRODUCT SYNONYMS

AMPK (A2/B1/G1); Unactive; Subunits A2: PRKAA2; AMPK; AMPK2; PRKAA Subunit B1: PRKAB1; HAMPKb; MGC17785 Subunit G1: PRKAG1; AMPKG; MGC8666; AMPK recombinant protein

PRODUCT SPECIFICATIONS

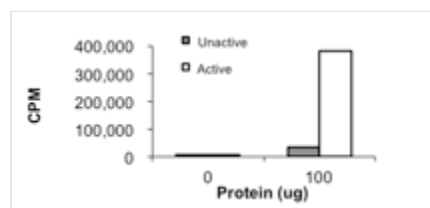
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Applicable Applications for AMPK recombinant protein	Kinase Assay
Tag	HIS
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for AMPK recombinant protein	Recombinant full-length human AMPK (combination of A2/B1/G1 subunits) was expressed by baculovirus in Sf9 insect cells using a C-terminal His tag. The gene accession numbers for the three subunits (A2/B1/G1) are, NM_006252, NM_006253, and NM_002733 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	Unactive Kinases; Apoptosis/Autophagy; Cancer; Cellular Stress; Metabolic Disorder; Ser/Thr 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.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_006252](#)

Molecular Weight

~69kDa (A2), ~38kDa (B1), and ~40kDa (G1)

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/ampk-a2/b1/g1-recombinant-protein-sf9-insect-cells-kinase-assay/73839>