

AMPK (A1/B1/G1) Recombinant Protein | AMPK recombinant protein

AMPK (A1/B1/G1), Active

CATALOG # AAA73838	HOST Sf9 insect cells	APPLICATIONS Western Blot
------------------------------	---------------------------------	-------------------------------------

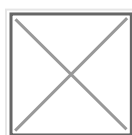
PRODUCT SYNONYMS

AMPK (A1/B1/G1); Active; Subunit A1: PRKAA1; MGC33776; MGC57364 Subunit B1: PRKAB1; AMPK; HAMPKb; MGC17785 Subunit G1: PRKAG1; AMPKG; MGC8666; AMPK recombinant protein

PRODUCT SPECIFICATIONS

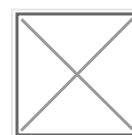
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for AMPK recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST/HIS
Species	Human
Dry Ice Note	The product 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 targets into smaller quantities after centrifugation and store at the 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 the related technical data sheet.



Activity

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

ADDITIONAL INFORMATION

Related Product Information for AMPK recombinant protein	<p>Recombinant full-length human AMPK (combination of A1/B1/G1 subunits) was expressed by baculovirus in Sf9 insect cells using N-terminal GST and C-terminal His tags. The gene accession numbers for the three subunits (A1/B1/G1) are NM_006251, NM_006253, and NM_002733.</p> <p>AMPK is a heterotrimer protein kinase consisting of a α catalytic subunit, and non-catalytic β and γ subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status (1). In response to cellular metabolic stresses, AMPK is activated and phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating biosynthesis of fatty acid and cholesterol (2).</p>
Product Categories/Family for AMPK recombinant protein	Protein Kinases; Apoptosis/Autophagy; Cancer; Cellular Stress; Metabolic Disorder; Ser/Thr Kinases

References

1. Minokoshi, Y. et al:AMP-kinase regulates food intake by responding to hormonal and nutrient signals in the hypothalamus. Nature 428: 569-574, 2004.
2. Hardie, D G. et al: The AMP-activated protein kinase--fuel gauge of the mammalian cells Eur J Biochem. 1997 Jun 1;246(2):259-73.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_006251](#)

Molecular Weight

approx. MW: 94~100kDa (A1), ~64kDa (B1), and ~68kDa (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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/ampk-a1/b1/g1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73838>