

AMPK (A2/B2/G3) Recombinant Protein | AMPK recombinant protein

AMPK (A2/B2/G3), Unactive

CATALOG #
AAA73837

HOST
Sf9 insect cells

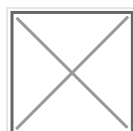
PRODUCT SYNONYMS

AMPK (A2/B2/G3); Unactive; Subunit A2: PRKAA2; AMPK; AMPK2; PRKAA Subunit B2: PRKAB2; MGC61468 Subunit G3: PRKAG3; AMPK recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>80%
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.
Concentration	0.1mg/mL (varies by lot)
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



SDS-PAGE

Purity: Sample Purity Data. 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/B2/G3 subunits) was expressed by baculovirus in Sf9 insect cells using the N-terminal GST and C-terminal His tags. The gene accession numbers for the three subunits (A2/B2/G3) are NM_006252, NM_005399 and NM_017431. Scientific Background: AMP-activated protein kinase (AMPK) exhibits a key role as a master regulator of cellular energy homeostasis (1). AMPK exists as a heterotrimeric complex composed of a catalytic α subunit and regulatory β and γ subunits. Binding of AMP to the γ subunit allosterically activates the complex. AMPK is activated in response to stresses that deplete cellular ATP (low glucose, hypoxia and ischemia) (2) and via signaling pathways in response to adiponectin, leptin and CAMKKβ.
Product Categories/Family for AMPK recombinant protein	Unactive Kinases; Apoptosis/Autophagy; Cancer; Cellular Stress; Metabolic Disorder; Ser/Thr Kinases
References	1. Hardie, G.D. The AMP-activated protein kinase pathway -new players upstream and downstream. J. Cell Sci. 2004;117: 5479-5487. 2. Kahn, B.B. et al. AMP-activated protein kinase: Ancient energy gauge provides clues to modern understanding of metabolism. Cell Metab; 2005: 1, 15-25.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_006252
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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/b2/g3-recombinant-protein-sf9-insect-cells/73837>