

## Recombinant Human AMPK (A1/B1/G1) (C-His tag)

Cat No:HR2R1140

For research use only

### Overview

Quantity	10 ?g
Gene Symbol	AMPK (A1/B1/G1)
Gene ID	N/A
Accession	NM_006251, NM_006253, NM_002733
Alternative Name	Subunit A1: PRKAA1, MGC33776, MGC57364 Subunit B1: PRKAB1, AMPK, HAMPKb, MGC17785 Subunit G1: PRKAG1, AMPKG, MGC8666
Species	Human
Source	Insect cells
Description	AMPK is a heterotrimer protein kinase consisting of an a catalytic subunit, and non-catalytic ? and ? subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status . 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 .
Functions	The specific activity of AMPK was determined to be 737 nmol /min/mg as per activity assay protocol.
Formulation	50mM NaPhosphate, pH7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.2mM DTT, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	68
Purity	70% - 90%
Concentration	
Shipping Condition	Dry Ice
Storage Condition	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.