

## Recombinant Human AMPK (A1/B1/G3) (C-His tag)

Cat No:HR2R1143

For research use only

### Overview

Quantity	10 ?g
Gene Symbol	AMPK (A1/B1/G3)
Gene ID	N/A
Accession	NM_006251, NM_006253, NM_017431
Alternative Name	Subunit A1: PRKAA1, MGC33776, MGC57364 Subunit B1: PRKAB1, AMPK, HAMPKb, MGC17785 Subunit G3: PRKAG3
Species	Human
Source	Insect cells
Description	AMPK (A1/B1/G3) is a member of the AMPK family which are heterotrimeric proteins consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPKs are an important energy-sensing enzyme group in the cells that monitor energy status particularly in response to stress . AMPKs regulate fatty acid and cholesterol synthesis by regulating the key rate-limiting enzymes acetyl-CoA carboxylase and hydroxy beta-methylglutaryl-CoA reductase. The ? subunit is dominantly expressed in skeletal muscle where it may play a key role in the regulation of energy metabolism .
Functions	The specific activity of AMPK was determined to be 185 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.