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

Cat No:HR2R1144

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	AMP-activated protein kinase (AMPK) exhibits a key role as a master regulator of cellular energy homeostasis . AMPK exists as a heterotrimeric complex composed of a catalytic alpha subunit and regulatory beta and gamma subunits. Binding of AMP to the gamma subunit allosterically activates the complex. AMPK is activated in response to stresses that deplete cellular ATP (low glucose, hypoxia and ischemia) and via signaling pathways in response to adiponectin, leptin and CAMKKbeta.
Functions	The specific activity of AMPK was determined to be 130 nmol /min/mg as per activity assay protocol.
Formulation	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	92
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.