

Recombinant Human AMPK (A1/B2/G1) (N-GST/C-His tag)

Cat No:HR2R1146

For research use only

Overview

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| Quantity | 10 ?g |
| Gene Symbol | AMPK (A1/B2/G1) |
| Gene ID | N/A |
| Accession | NM_006251, NM_005399, NM_002733 |
| Alternative Name | Subunit A1: PRKAA1, MGC33776, MGC57364 Subunit B2: PRKAB2, MGC61468 Subunit G1: PRKAG1, AMPKG, MGC8666 |
| 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 a subunit and regulatory beta and gamma subunits. Binding of AMP to the ? 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 240 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. |