

## Recombinant Human AMPK (A1/B1/G2) (C-His tag) Cat No:HR2R1141

For research use only

## Overview

| Quantity              | 10 ?g   |
|-----------------------|---|
| Gene Symbol           | AMPK (A1/B1/G2)   |
| Gene ID               | N/A   |
| Accession             | NM_006251, NM_006253, NM_001040633  |
| Alternative<br>Name   | Subunit A1: PRKAA1, MGC33776, MGC57364 Subunit B1: PRKAB1, AMPK, HAMPKb, MGC17785 Subunit G2: PRKAG2, AAKG, CMH6, WPWS, AAKG2, H91620p  |
| Species               | Human   |
| Source                | Insect cells  |
| Description           | AMP-activated protein kinase (AMPK) exhibits a key role as a master regulator of cellular energy homeostasis .<br>AMPK exists as a heterotrimeric complex composed of a catalytic a subunit and regulatory ? and ? subunits.<br>Binding of AMP to the ? subunit allosterically activates the complex. AMPK is activated in response to stresses<br>that deplete cellular ATP (low glucose, hypoxia and ischemia) and via signaling pathways in response to<br>adiponectin, leptin and CAMKK?. |
| Functions             | The specific activity of AMPK was determined to be 980 nmol /min/mg as per activity assay protoco   |
| Formulation           | 50mM NaPhosphate, pH7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.2mM DTT, 25% glycerol.  |
| Solubility            | N/A   |
| Appearance            | Liquid  |
| Molecular<br>Weight   | 68  |
| Purity                | 70% - 90%   |
| Concentration         |   |
| Shipping<br>Condition | Dry Ice   |
| Storage<br>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.   |