

Human AMPK (G1/B2/A1) Heterotrimer Protein

Catalog Number: CT005-H0907B



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

5' adenosine monophosphate-activated protein kinase; 5' AMP-activated protein kinase; AMPK; beta 1 non-catalytic subunit and gamma 1 non-catalytic

Protein Construction:

A DNA sequence encoding the human PRKAG1 (P54619) (Met 1-Pro 331), constructed the plasmid 1; A DNA sequence encoding the human PRKAB2 (O43741) (Met 1-Ile 272), constructed the plasmid 2; A DNA sequence encoding the human PRKAA1 (Q13131-1) (Met 1-Gln 559) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus, constructed the plasmid 3. The three plasmids were co-expressed and the heterotrimer was purified.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 94 % as determined by SDS-PAGE

Bio Activity:

The specific activity was determined to be 6 nmol/min/mg using synthetic SAMS peptide (HMRSAMSGHLVKRR) as substrate.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met & Met & His

Molecular Mass:

The recombinant heterotrimer of human AMPK (PRKAG1 / PRKAB2 / PRKAA1) has a calculated molecular mass of 160 (38+30+92) KDa. The apparent molecular mass is approximately 35, 37 & 95 KDa respectively in SDS-PAGE under reducing conditions.

Formulation:

Supplied as sterile 50mM Tris, 200mM NaCl, 2mM GSH, 1mM EDTA, 1mM DTT, 10% gly, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

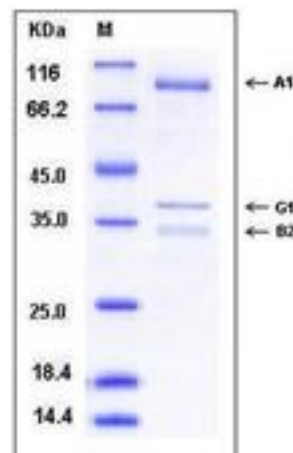
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



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Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>