Human AMPK (G1/B1/A2) Heterotrimer Protein

Catalog Number: CT008-H0907B

Sino Biological
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General Information

Gene Name Synonym:

AMPK; AMPKa1

Protein Construction:

A DNA sequence encoding the human PRKAG1 (P54619) (Met 1-Pro 331), constructed the plasmid 1; A DNA sequence encoding the human PRKAB1 (Q9Y478) (Met 1-Ile 270), constructed the plasmid 2; A DNA sequence encoding the human PRKAA2 (P54646) (Met 1-Arg 552) 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 4 nmol/min/mg using synthetic SAMS peptide (HMRSAMSGLHLVKRR) 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 ℃

Predicted N terminal: Met & Met & His

Molecular Mass:

The recombinant heterotrimer of human AMPK (PRKAG1 / PRKAB1 / PRKAA2) has a calculated molecular mass of 158 (38+30+90) KDa. The apparent molecular mass is approximately 40, 42 & 95 KDa respectively in SDS-PAGE under reducing conditions.

Formulation:

Supplied as sterile 50mM Tris, 200mM NaCl, 1mM EDTA, 1mM DTT, 0.5mM PMSF, 10% gly, 1mM GSH, 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℃ to -80℃ 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: