Human ACACA kinase/HMGCR kinase (G1/B2/A1) recombinant protein

Catalog Number: 504676

General Information

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.

Organism

Human

Expression Host

Baculovirus-Insect Cells

QC Testing

Activity

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

Purity

> 94 % as determined by SDS-PAGE

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 / 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
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

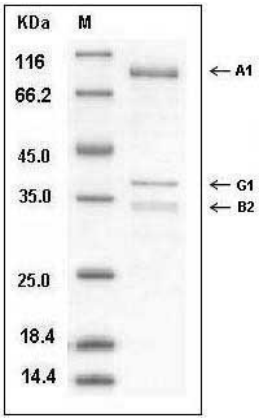
Storage

Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human AMPK (G1/B2/A1) Heterotrimer Protein SDS-PAGE