

# Human ACACA kinase/HMGCR kinase (G1/B1/A2) recombinant protein



Catalog Number: 504678

## 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 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.

### Organism

Human

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Activity

The specific activity was determined to be 4 nmol/min/mg using synthetic SAMS peptide (HMRSAMSGHLVKRR) as substrate.

### Purity

> 94 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu\text{g}$  of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

### 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

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

## Usage Guide

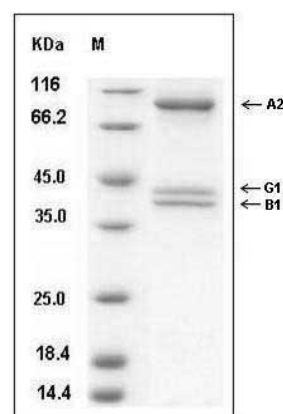
### Storage

Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . 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/B1/A2) Heterotrimer Protein  
SDS-PAGE