

Recombinant Rat AMPK alpha2 Protein (His Tag)

Catalog Number:PKSR040467



Note: Centrifuge before opening to ensure complete recovery of vial contents.

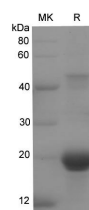
Description

| | |
|------------------------------------|---|
| Synonyms | 5'-AMP-activated protein kinase catalytic subunit alpha-2, AAPK2, ACACA kinase, Acetyl-CoA carboxylase kinase, AMPK alpha 2 chain, AMPK subunit alpha-2, AMPK2, AMPKa2, AMPKalpha2, HMGCR kinase, Hydroxymethylglutaryl-CoA reductase kinase, PRKAA, PRKAA2, Protein kinase AMP activated alpha 2 catalytic subunit, Protein kinase AMP activated catalytic subunit alpha 2 |
| Species | Rat |
| Expression Host | E.coli |
| Sequence | Tyr16-Val195 |
| Accession | Q09137-1 |
| Calculated Molecular Weight | 20 kDa |
| Observed molecular weight | 22.3 kDa |
| Tag | N-His |
| Bioactivity | Testing in progress |

Properties

| | |
|-----------------------|--|
| Purity | > 85 % as determined by reducing SDS-PAGE. |
| Endotoxin | Please contact us for more information. |
| Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from sterile PBS, pH 7.4., 5% trehalose, 5% mannitol, 0.01% tween-80. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the print |
| Reconstitution | Please refer to the printed manual for detailed information. |

Data



> 85 % as determined by reducing SDS-PAGE.

Background

The protein encoded by this gene is a catalytic subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important

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energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. Studies of the mouse counterpart suggest that this catalytic subunit may control whole-body insulin sensitivity and is necessary for maintaining myocardial energy homeostasis during ischemia.

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