

Recombinant Rat AMPK alpha2 Protein (His Tag)

Catalog Number: PDER100002



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

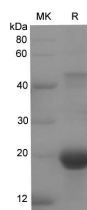
Description

Synonyms	5'-AMP-activated protein kinase catalytic subunit alpha-2; AAK2; 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	20.0 kDa
Observed molecular weight	22.3 kDa
Tag	N-His

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 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

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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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