

# Recombinant Rat AMPK alpha2 Protein (His Tag)

Catalog Number:PDER100002



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

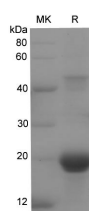
## Description

<b>Synonyms</b>	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
<b>Species</b>	Rat
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Tyr16-Val195
<b>Accession</b>	Q09137-1
<b>Calculated Molecular Weight</b>	20.0 kDa
<b>Observed molecular weight</b>	22.3 kDa
<b>Tag</b>	N-His

## Properties

<b>Purity</b>	> 85 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	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
<b>Reconstitution</b>	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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