

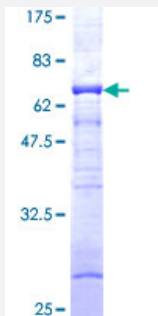
Full-Length

PRKAG1 (Human) Recombinant Protein (P01)

Catalog # H00005571-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PRKAG1 full-length ORF (AAH00358.1, 1 a.a. - 331 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

METVISSDSSPAVENEHPQETPESNNSVYTSFMKSHRCYDLIPTSSKLVVFDTSLQVKKAFFALVT
NGVRAAPLWDSKKQSFVGMTITDFINILHRYYSALVQIYEEHKKIETWREVYLQDSFKPLVCISP
NASLFDVAVSSLRNKHRLPVIDPESGNTLYILTHKRILKFLKLFITEFPKPEFMSSKLEELQIGTYANIA
MVRTTTPVYVALGIFVQHRVSALPVVDEKGRVVDIYSKFDVINLAAEKTNNLDVSVTKALQHRSH
YFEGVLKCYLHETLETIINRLVEAEVHRLVVVDENDVVKGIVSLSDILQALVLTGGEKKP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

62.04

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PRKAG1

Entrez GeneID	5571
GeneBank Accession#	BC000358.1
Protein Accession#	AAH00358.1
Gene Name	PRKAG1
Gene Alias	AMPKG, MGC8666
Gene Description	protein kinase, AMP-activated, gamma 1 non-catalytic subunit
Omim ID	602742
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a regulatory 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 reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This subunit is one of the gamma regulatory subunits of AMPK. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq]
Other Designations	5'-AMP-activated protein kinase, gamma-1 subunit AMP-activated protein kinase, noncatalytic gamma-1 subunit AMPK gamma-1 chain

Pathway

- [Adipocytokine signaling pathway](#)

- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Insulin signaling pathway](#)

Disease

- [Atherosclerosis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Hypercholesterolemia](#)