

## Recombinant Human PRKAG1, His-tagged

**Cat. No.** PRKAG1-2334H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human EPYC protein, a DNA sequence encoding human EPYC (Q99645) corresponding to amino acid (1-322) was expressed with a C-terminal polyhistidine tag in HEK293.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	354aa
<b>Description</b>	5"-AMP-activated protein kinase subunit gamma-1 isoform 1, also known as PRKAG1, 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. This subunit is one of the gamma regulatory subunits of AMPK. Alternatively spliced transcript variants encoding distinct isoforms have been observed.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
<b>Molecular Mass</b>	40 kDa
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMETVISS DSSPAVENEH PQETPESNNS VYTSFMKSHR CYDLIPTSSK LVVFDTS LQV KKAFFALVTNGVRAAPLWDS KKQSFVGMLT ITDFINILHR YYKSALVQIY ELEEKTIETW REVYLQDSFK

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PLVCISPNAS LFDAVSSLIR NKIHRLPVID PESGNTLYIL THKRILKFLK LFITEFPKPE  
 FMSKSLEELQ IGTYANIAMV RTTTPVYVAL GIFVQHRVSA LPVVDEKGRV  
 VDIYSKFDVINLAAEKTYNN LDVSVTKALQ HRSHYFEGVL KCYLHETLET  
 IINRLVEAEV HRLVVVDEND VVKGIVSLSD ILQALVLTGG EKKP

**Purity** >85% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25 mg/ml

## GENE INFORMATION

**Gene Name** [PRKAG1 protein kinase, AMP-activated, gamma 1 non-catalytic subunit \[ Homo sapiens \]](#)

**Official Symbol** PRKAG1

**Synonyms** PRKAG1; protein kinase, AMP-activated, gamma 1 non-catalytic subunit; 5-AMP-activated protein kinase subunit gamma-1; AMPK gamma1; AMPK gamma-1 chain; 5-AMP-activated protein kinase, gamma-1 subunit; AMPKG; MGC8666;

**Gene ID** [5571](#)

**mRNA Refseq** [NM\\_001206709](#)

**Protein Refseq** [NP\\_001193638](#)

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<b>MIM</b>	602742
<b>UniProt ID</b>	P54619
<b>Chromosome Location</b>	12q12-q14
<b>Pathway</b>	AMPK signaling, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Energy Metabolism, organism-specific biosystem; Energy dependent regulation of mTOR by LKB1-AMPK, organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), conserved biosystem;
<b>Function</b>	ADP binding; AMP binding; contributes_to AMP-activated protein kinase activity; AMP-activated protein kinase activity; ATP binding; cAMP-dependent protein kinase activity; cAMP-dependent protein kinase regulator activity; nucleotide binding; protein binding; protein kinase binding;

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