

Recombinant Human PRKAG1, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	354aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	40 kDa
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMETVISS DSSPAVENEH PQETPESNNS VYTSFMKSHR CYDLIPTSSK LVVFDTSLQV KKAFFALVTNGVRAAPLWDS KKQSFVGMLT ITDFINILHR YYKSALVQIY ELEEKTIETW REVYLQDSFK

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PLVCISPNAS LFDVSSLIR NKIHRLPVID PESGNTLYIL THKRILKFLK LFITEFPKPE
 FMSKSLEELQ IGTYANIAMV RTTTPVYVAL GIFVQHRVSA LPVVDEKGRV
 VDIYSKFDVINLAAEKTNN LDVSVTKALQ HRSYFEGVL 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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MIM	602742
UniProt ID	P54619
Chromosome Location	12q12-q14
Pathway	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;
Function	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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