

# Product information



## PRKAG1, 1-331aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2334

**Full name:** 5'-AMP-activated protein kinase subunit gamma-1 isoform 1

**NCBI Accession No.:** NP\_002724

**Synonyms:** AMPKG

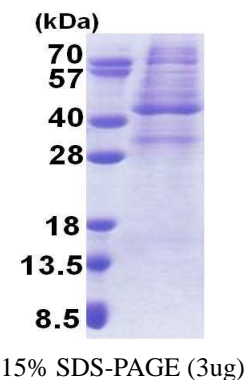
**Description:** 5'-AMP-activated protein kinase subunit gamma-1 isoform 1, also known as PRKAG1, is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing 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. Recombinant human PRKAG1 protein, fused to His-tag at N-terminus, was expressed in *E.coli*.

**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

**Molecular Weight:** 40 kDa (354aa)

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

**Concentration:** 0.25 mg/ml (determined by Bradford assay)



### Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSMTVISS DSSPAVENEH PQETPESNNS VYTSFMKSHR CYDLIPTSSK LVVFDTSLQV KKAFFALVTN  
GVRAAPLWDS KKQSFVGMILT ITDFINILHR YYKSALVQIY ELEEKIIETW REVYLQDSFK PLVCISPNAS LFDVAVSSLR NKIHLRPVID  
PESGNTLYIL THKRILKFLK LFITEFPKPE FMSKSLEELQ IGTYANIAMV RTTTPVYVAL GIFVQHRVSA LPVVDKGRV VDIYSKFDVI  
NLAAEKTYNN LDVSVTKALQ HRSHYFEGVL KCYLHETLET IINRLVEAEV HRLVVVDEND VVKGIVSLSD ILQALVLTGG EKKP

### General references:

Zaha VG., *et al.* (2012) *Circ Res.* 111(6):800-14

Za tara G., *et al.* (2008) *Biochem Pharmacol.* 76(10):1263-75.

**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.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



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