Recombinant human AMPK gamma1/PRKAG1 protein

Catalog Number: ATGP2334

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-331aa

UniProt No.
P54619

NCBI Accession No.
NP_002724

Alternative Names
5'-AMP-activated protein kinase subunit gamma-1 isoform 1, AMPKG, Protein kinase AMP-activated non-catalytic subunit gamma 1, AMPK subunit gamma-1

PRODUCT SPECIFICATION

Molecular Weight
40 kDa (354aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE, Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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at N-terminus, was expressed in E. coli.

Amino acid Sequence

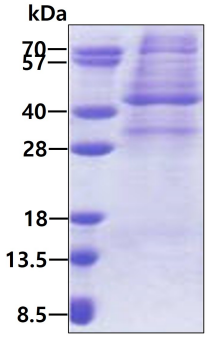
<MGSSHHHHHH SSGLVPRGSH MGS>METVISS DSSPAVENEH PQETPESNNS VYTSFMKSHR CYDLIPTSSK LVVFDTSLQV KKAFFALVTN GVRAAPLWDS KKQSFVGMLT ITDFINILHR YYKSALVQIY ELEEHKIETW REVYLQDSFK PLVCISPNAS LFDAVSSLIR NKIHRLPVID PESGNTLYIL THKRILKFLK LFITEFPKPE FMSKSLEELQ IGTYANIAMV RTTTPVYVAL GIFVQHRVSA LPVVDEKGRV VDIYSKFDVI NLAAEKTYNN 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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.