Recombinant human AMPK beta 2 protein

Catalog Number: ATGP1817

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-272aa

UniProt No.
O43741

NCBI Accession No.
NP_005390

Alternative Names
5'-AMP-activated protein kinase subunit beta-2

PRODUCT SPECIFICATION

Molecular Weight
32.8 kDa (296aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 2M urea

Purity
> 90% 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
PRKAB2 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. PRKAB2 may be a positive regulator of AMPK activity. It is highly expressed in skeletal muscle and thus may

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have tissue-specific roles. Recombinant human PRKAB2 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

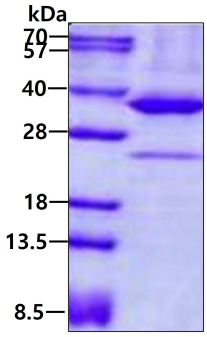
<MGSSHHHHHH SSGLVPRGSH MGSH>MGNTTS DRVSGERHGA KAARSEGAGG HAPGKEHKIM VGSTDDPSVF SLPDSKLPGD KEFVSWQQDL EDSVKPTQQA RPTVIRWSEG GKEVFISGSF NNWSTKIPLI KSHNDFVAIL DLPEGEHQYK FFVDGQWVHD PSEPVVTSQL GTINNLIHVK KSDFEVFDAL KLDSMESSET SCRDLSSSPP GPYGQEMYAF RSEERFKSPP ILPPHLLQVI LNKDTNISCD PALLPEPNHV MLNHLYALSI KDSVMVLSAT HRYKKKYVTT LLYKPI

General References

Souza RP. et al. (2012) J Psychiatr Res. 46:462-468.
Jung KC. et al. (2003) Cytogenet Genome Res. 103:202C.

DATA

SDS-PAGE



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