Recombinant human APIP protein

Catalog Number: ATGP1614

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-242aa

UniProt No.
Q96GX9

NCBI Accession No.
NP_057041

Alternative Names
Probable methylthioribulose-1-phosphate dehydratase, APIP2, CGI-29, CGI29, dJ179L10.2, MMRP19

PRODUCT SPECIFICATION

Molecular Weight
29.7 kDa (266aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

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
APIP, also known as probable methylthioribulose-1-phosphate dehydratase, catalyzes the dehydration of methylthioribulose-1-phosphate (MTRu-1-P) into 2, 3-diketo-5-methylthiopentyl-1-phosphate (DK-MTP-1-P). It has an anti-apoptotic function and prevents muscle ischemic damage. This protein inhibits the cytochrome c-dependent and APAF1-mediated cell death. Recombinant human APIP protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

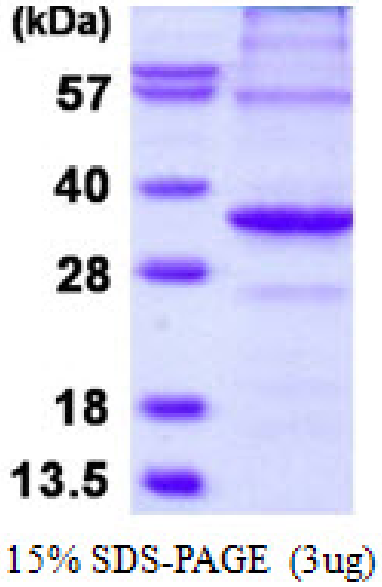
MGSSHHHHHH SSGLVPRGSH MGSHMSGCDA REGDCCSRRC GAQDKEHPRY LIPELCKQFY HLGWVTGTGG GISLKHGDEI YIAPSGVQKE RIQPEDMFVC DINEKDISGP SPSKKLKKSQ CTPLFMNAYT MRGAGAVIHT HSKAAVMATL LFPGREFKIT HQEMIKGIKK CTSGGYYRYD DMLVVPIIEN TPEEKDLKDR MAHAMNEYPD SCAVLVRRHG VYVWGETWEK AKTMCECYDY LFDIAVSMKK VGLDPSQLPV GENGIV

General References

Cho D.-H., et al. (2004) J. Biol. Chem. 279:39942-39950
Lai C.-H., et al. (2000) Genome Res. 10:703-713

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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