# 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**

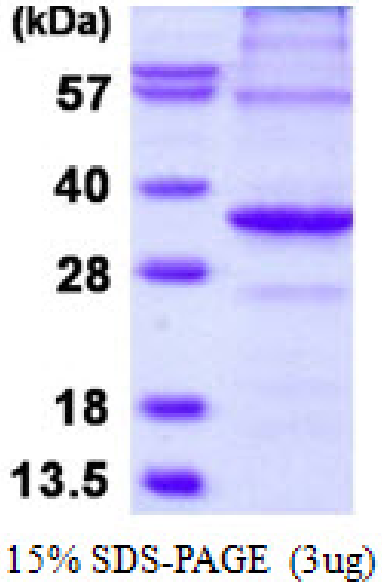
MGSSHHHHHH SSGLVPRGSH MGSHMSGCDA REGDCCSRRC GAQDKEHPRY LIPELCKQFY HLGWVTGTGG GISLKHGDEI YIAPSGVQKE RIQPEDMFVC DINEKDISGP SPSKKLKKSQ CTPLFMNAYT MRGAGAVIHT HSKAAVMATL LFPGREFKIT HQEMIKGIKK CTSGGYYRYD DMLVVPIIEN TPEEKDLKDR MAHAMNEYPD SCAVLVRRHG VYVWGETWEK AKTMCECYDY LFDIAVSMKK VGLDPSQLPV GENGIV

**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.