Recombinant human MASA/ENOPH1 protein

Catalog Number: ATGP0927

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-261aa

UniProt No.
Q9UHY7

NCBI Accession No.
NP_067027

Alternative Names
Enolase-phosphatase E1, MASA, MST145, Acireductone synthase, 2,3-diketo-5-methylthio-1-phosphopentane phosphatase, E1, mtnC

PRODUCT SPECIFICATION

Molecular Weight
31 kDa (281aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl

Purity
> 90% 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
Enolase-phosphatase E1, also known as ENOPH1, is a member of the MasA family of the HAD (halo-acid dehalogenase) -like hydrolase superfamily. ENOPH1 is a bifunctional enzyme, exhibiting both phosphatase and atypical enolase activities. ENOPH1 plays an important role in the ubiquitous methionine salvage pathway, a biochemical pathway found in all organisms that regulate methionine levels in the cell. Recombinant human ENOPH1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

chromatography techniques.

Amino acid Sequence

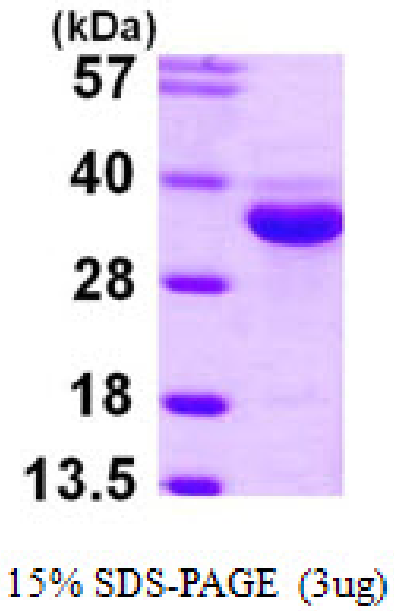
MGSSHHHHHH SSGLVPRGSH MVVLSVPAEV TVILLDIEGT TTPIAFVKDI LFPYIEENVK EYLQTHWEEE ECQQDVSLLR KQAEEDAHLD GAVPIPAASG NGVDDLQQMI QAVVDNVCWQ MSLDRKTTAL KQLQGHMWRA AFTAGRMKAE FFADVVPAVR KWREAGMKVY IYSSGSVEAQ KLLFGHSTEG DILELVDGHF DTKIGHKVES ESYRKIADSI GCSTNNILFL TDVTREASAA EEADVHVAVV VRPGNAGLTD DEKTYYSLIT SFSELYLPSS T

General References

Zhang Y., et al. (2004) Bioorq Med Chem. 12:3847-3855.
Wang H., et al. (2005) Acta Crystallogr. 61:521-523.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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