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

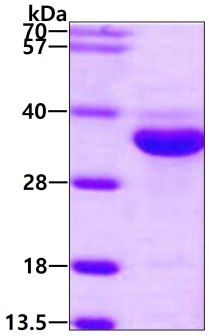
<MGSSHHHHHH SSGLVPRGSH> MVVLSVPAEV TVILLDIEGT TTPIAFVKDI LFPYIEENVK EYLQTHWEEE ECQQDVSLLR KQAEEDAHLD GAVPIPAASG NGVDDLQQMI QAVVDNVCWQ MSLDRKTTAL KQLQGHMWRA AFTAGRMKAE FFADVVPAVR KWREAGMKVY IYSSGSVEAQ KLLFGHSTEG DILELVDGHF DTKIGHKVES ESYRKIADSI GCSTNNILFL TDVTREASAA EEADVHVAVV VRPGNAGLTD DEKTYYSLIT SFSELYLPSS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



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