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# Recombinant human MASA/ENOPH1 protein

Catalog Number: ATGP0927

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-261aa

#### UniProt No.

O9UHY7

#### **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



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chromatography techniques.

# **Amino acid Sequence**

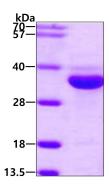
<MGSSHHHHHH SSGLVPRGSH> MVVLSVPAEV TVILLDIEGT TTPIAFVKDI LFPYIEENVK EYLQTHWEEE ECQQDVSLLR KQAEEDAHLD GAVPIPAASG NGVDDLQQMI QAVVDNVCWQ MSLDRKTTAL KQLQGHMWRA AFTAGRMKAE FFADVVPAVR KWREAGMKVY IYSSGSVEAQ KLLFGHSTEG DILELVDGHF DTKIGHKVES ESYRKIADSI GCSTNNILFL TDVTREASAA EEADVHVAVV VRPGNAGLTD DEKTYYSLIT SFSELYLPSS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

