Recombinant Human ENOPH1 protein, His-tagged

Cat. No. ENOPH1-3457H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ENOPH1(1-261aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-261 a.a.
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl
Molecular Mass	31 kDa (281aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSHGAVPIPAASG NGVDDLQQMI QAVVDNVCWQ MSLDRKTTAL KQLQGHMWRA AFTAGRMKAE FFADVVPAVR KWREAGMKVY IYSSGSVEAQKLLFGHSTEG DILELVDGHF DTKIGHKVES ESYRKIADSI GCSTNNILFL TDVTREASAA EEADVHVAVV VRPGNAGLTD DEKTYYSLITMVVLSVPAEV TVILLDIEGT TTPIAFVKDI LFPYIEENVK

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	EYLQTHWEEE ECQQDVSLLR KQAEEDAHLDSFSELYLPSS T
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	ENOPH1 enolase-phosphatase 1 [Homo sapiens]
Official Symbol	ENOPH1
Synonyms	ENOPH1; enolase-phosphatase 1; enolase-phosphatase E1; acireductone synthase; E1; Enolase phosphatase E1; MASA; MASA homolog; 2,3-diketo-5-methylthio-1-phosphopentane phosphatase; MST145; FLJ12594; DKFZp586M0524;
Gene ID	58478
mRNA Refseq	NM_021204
Protein Refseq	NP_067027
MIM	
UniProt ID	Q9UHY7
Chromosome Location	4q21.3

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Pathway	Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Metabolism of polyamines, organism-specific biosystem; Methionine salvage pathway, organism-specific biosystem; Methionine salvage pathway, organism-specific biosystem;
Function	2,3-diketo-5-methylthiopentyl-1-phosphate enolase activity; 2-hydroxy-3-keto-5-methylthiopentenyl-1-phosphate phosphatase activity; acireductone synthase activity; acireductone synthase activity; hydrolase activity; magnesium ion binding; phosphoglycolate phosphatase activity;

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