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## Recombinant human MPST protein

Catalog Number: ATGP1860

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

1-297aa

#### **UniProt No.**

P25325

#### **NCBI Accession No.**

NP 001013454

#### **Alternative Names**

3-mercaptopyruvate sulfurtransferase, MST, TST2

## PRODUCT SPECIFICATION

#### **Molecular Weight**

35.7 kDa (321aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

#### **Purity**

> 95% 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**

MPST catalyzes the transfer of a sulfur ion from 3-mercaptopyruvate to cyanide or other thiol compounds. It may be involved in cysteine degradation and cyanide detoxification. There is confusion in literature between this protein (mercaptopyruvate sulfurtransferase, MPST), which appears to be cytoplasmic, and thiosulfate sulfurtransferase (rhodanese, TST, GeneID:7263), which is a mitochondrial protein. Deficiency in MPST activity has been implicated in a rare inheritable disorder known as mercaptolactate-cysteine disulfiduria (MCDu). Alternatively spliced transcript variants encoding same or different isoforms have been identified for this gene.



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Recombinant human MPST protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

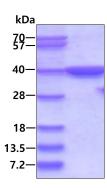
<MGSSHHHHHH SSGLVPRGSH MGSH>MASPQL CRALVSAQWV AEALRAPRAG QPLQLLDASW YLPKLGRDAR REFEERHIPG AAFFDIDQCS DRTSPYDHML PGAEHFAEYA GRLGVGAATH VVIYDASDQG LYSAPRVWWM FRAFGHHAVS LLDGGLRHWL RQNLPLSSGK SQPAPAEFRA QLDPAFIKTY EDIKENLESR RFQVVDSRAT GRFRGTEPEP RDGIEPGHIP GTVNIPFTDF LSQEGLEKSP EEIRHLFQEK KVDLSKPLVA TCGSGVTACH VALGAYLCGK PDVPIYDGSW VEWYMRARPE DVISEGRGKT H

#### **General References**

Billaut-Laden I, Rat E, et al. (2006). Toxicol Lett. 165(2):101-11.

## **DATA**

#### **SDS-PAGE**



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

