

Recombinant Human MPST, His-tagged

Cat. No. MPST-7078H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MPST protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-297aa
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	35 kDa (321aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHPASPQL CRALVSAQWV AEALRAPRAG QPLQLLDASW YLPKLGRDAR REFEERHIPG AAFFDIDQCSDRTSPYDHML

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PGAEHFAEYA GRLGVGAATH VVIYDASDQG LYSAPRVWWM FRAFGHHA
 LLDGGLRHWL RQNLPLSSGK SQPAPAEFRA QLDPAFIKTY EDIKENLES
 RFQVVDSDRAT GRFRGTEPEP RDGIEPGHIP GTVNIPFTDF LSQEGLEKSP
 EEIRHLFQEK KVDLSKPLVATCGSGVTACH VALGAYLCGK PDVPIYDGSW
 VEWMRMRARPE DVISEGRGKT H

Purity >95% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml

GENE INFORMATION

Gene Name [MPST mercaptopyruvate sulfurtransferase \[Homo sapiens \]](#)

Official Symbol MPST

Synonyms MPST; mercaptopyruvate sulfurtransferase; 3-mercaptopyruvate sulfurtransferase; human liver rhodanese; MST; TST2; MGC24539;

Gene ID [4357](#)

mRNA Refseq [NM_001013436](#)

Protein Refseq [NP_001013454](#)

MIM [602496](#)

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UniProt ID	P25325
Chromosome Location	22q13.1
Pathway	Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; L-cysteine degradation III, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Sulfur relay system, organism-specific biosystem; Sulfur relay system, conserved biosystem;
Function	3-mercaptopyruvate sulfurtransferase activity; thiosulfate sulfurtransferase activity; transferase activity;

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