

Recombinant Full Length Human MPST Protein

Cat. No. MPST-311HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MPST (amino acids 1-297) with N terminal proprietary tag, 58.74 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	297 amino acids
Description	This protein encoded by this gene 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
Molecular Mass	58.740kDa inclusive of tags
AA Sequence	MASPQLCRALVSAQWVAEALRAPRAGQPLQLLDASWYLPK LGRDARREFEERHIP GAAFFDIDQCSDRTSPYDHMLPGAE HFAEYAGRLGVGAATHVVIYDASDQGLYSAP

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RVWWMFRAF GHHAVSLLDGGLRHWLRQNLPLSSGKSQPAPAEFRAQLDP AFIKT
YEDIKENLESRRFQVVDSDRATGRFRGTEPEPRDGI EPGHIPGTVNIPFTDFLSQEG
EKSPEEIRHLFQEKKVDL SKPLVATCGSGVTACHVALGAYLCGKPDVPIYDGSWVE
WY MRARPEDVISEGRGKTH

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

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

Official Symbol [MPST](#)

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

Gene ID [4357](#)

mRNA Refseq [NM_001013436](#)

Protein Refseq [NP_001013454](#)

MIM [602496](#)

UniProt ID [P25325](#)

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