

Recombinant Human MPST

Cat. No. MPST-29702TH **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	Wheat Germ
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.
Molecular Weight	58.740kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MASPQLCRALVSAQWVAEALRAPRAGQPLQLLDASWYLPK LGRDARREFEERHIP GAAFFDIDQCSVRTSPYDHMLPGAE HFAEYAGRLGVGAATHVVIYDASDQGLYSAP RVWWMFRAF GHHAVSLLDGGLRHWLRQNLPLSSGKSQPAPAEFRAQLDP AFIKT YEDIKENLESRRFQVVDSRATGRFRGTEPEPRDGI EPGHIPGTVNIPFTDFLSQEGL EKSPEEIRHLFQEKKVDL SKPLVATCGSGVTACHVALGAYLCGKPDVPIYDGSWVE WY MRARPEDVISEGRGKTH
Sequence Similarities	Contains 2 rhodanese domains.
GENE INFORMATION	
Gene ID	MPST mercaptopyruvate sulfurtransferase [Homo sapiens]
Official Symbol	MPST
Synonyms	MPST; mercaptopyruvate sulfurtransferase; 3-mercaptopyruvate sulfurtransferase; human liver rhodanese; MST; TST2;