

Mercaptopyruvate Sulfurtransferase Recombinant Protein | MPST recombinant protein

Recombinant Human Mercaptopyruvate Sulfurtransferase MPST Human

CATALOG # AAA39092	HOST E Coli
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PRODUCT SYNONYMS

Mercaptopyruvate Sulfurtransferase; Recombinant Human Mercaptopyruvate Sulfurtransferase MPST Human; 3-mercaptopyruvate sulfurtransferase; MST; MPST; TST2; MPST recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The MPST solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT
Sequence	<u>MGSSHHH HHHSSGLVPR GSHMGSHMASPQLCRA LVSAQWVAEA LRAPRAGQPL QLLDASWYLP</u> KLGRDARREF EERHIPGAAF FDIDQCSVRT SPYDHMLPGA EHFAEYAGRL GVGAATHVVI YDASDQGLYS APRVWWMFRA FGHHAVSLLD GGLRHWLRQN LPLSSGKSQP APAEFRAQLD PAFIKTYEDI KENLESRRFQ VVDSRATGRF RGTEPEPRDG IEPGHIPGTV NIPFTDLSQ EGLEKSPEEI RHLFQEKKVD LSKPLVATCG SGVTACHVAL GAYLCGKPDV PIYDGSWVEW YMRARPEDVI SEGRGKTH.< /u>
Physical Appearance	Sterile Filtered clear solution
Preparation and Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for MPST recombinant protein	Description: MPST Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 321 amino acids (1-297) and having a molecular mass of 35kDa.MPST is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Introduction: Mercaptopyruvate Sulfurtransferase (MPST) catalyzes the transfer of a sulfur ion from 3-mercaptopyruvate to cyanide or other thiol compounds. MPST might be involved in cysteine degradation and cyanide detoxification. The MPST enzyme is regulated by oxidative stress and thioredoxin. In oxidative stress conditions, the catalytic cysteine site is transformed to a sulfenate which inhibits the MPST enzyme activity. The reduced thioredoxin cleaves an intersubunit disulfide bond to activate the redox switch and reactivate the enzyme. A deficiency in MPST activity is implicated in a rare inheritable condition known as MCDU (mercaptolactate-cysteine disulfiduria).
Product Categories/Family for MPST recombinant protein	Enzymes; Transferase

NCBI AND UNIPROT INFORMATION

NCBI GI #	61835204
NCBI GeneID	4357
NCBI Accession #	NP_001013454.1
NCBI GenBank Nucleotide #	NM_001013436.2

UniProt Accession #	P25325; O75750; Q6FHN9; A8MZ34; B3KP52; J3KPV7
NCBI Official Full Name	3-mercaptopyruvate sulfurtransferase isoform 2
NCBI Official Synonym Full Names	mercaptopyruvate sulfurtransferase
NCBI Official Symbol	MPST
NCBI Official Synonym Symbols	MST; TST2; TUM1
NCBI Protein Information	3-mercaptopyruvate sulfurtransferase; human liver rhodanese; tRNA thiouridin modification protein 1
UniProt Protein Name	3-mercaptopyruvate sulfurtransferase
UniProt Gene Name	MPST
UniProt Synonym Gene Names	TST2; MST
UniProt Entry Name	THTM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mpst-recombinant-protein-e-coli/39092>