

Recombinant Human MPST Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MPST-3211H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MPST MS Standard C13 and N15-labeled recombinant protein (NP_001123989) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 Mass	33.2 kDa
AA Sequence	MASPQLCRALVSAQWVAEALRAPRAGQPLQLLDASWYLPKLGRDARREFEERHIP GAAFFDIDQCSDRTSPYDHMLPGAEHFAEYAGRLGVGAATHVVIYDASDQGLYSAP RVWWMFRAFGHHAVSLLDGGLRHWLRQNLPLSSGKSQPAPAEFRAQLDPAFIKY EDIKENLESRRFQVVDSDRATGRFRGTEPEPRDGIPEGHIPGTVNIPFTDFLSQEGLEK

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SPEEIRHLFQEKKVDLSKPLVATCGSGVTACHVALGAYLCGKPDVPIYDGSWVEWY
MRARPEDVISEGRGKTHTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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; MGC24539;

Gene ID 4357

mRNA Refseq NM_001130517

Protein Refseq NP_001123989

MIM 602496

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UniProt ID

P25325

SDS-PAGE

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