

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

**Cat. No.** MPST-5436H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | MPST MS Standard C13 and N15-labeled recombinant protein (NP_001013458) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | <p>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.</p> |
| <b>Molecular Mass</b>   | 33.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>      | MASPQLCRALVSAQWVAEALRAPRAGQPLQLLDASWYLPKLGRDARREFEERHIP<br>GAAFFDIDQCSDRTPSYDHMLPGAEHFAEYAGRLGVGAATHVVIYDASDQGLYSAP<br>RVWWMFRAFGHHAVSLLDGGLRHWLRQNLPLSSGKSQPAPAEFRAQLDPAFIKY<br>EDIKENLESRRFQVVDSDRATGRFRGTEPEPRDGIPEGHIPGTVNIPFTDFLSQEGLEK                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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SPEEIRHLFQEKKVDLSKPLVATCGSGVTACHVALGAYLCGKPDVPIYDGSWVEWY  
MRARPEDVISEGRGKTHTRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

|                        |                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MPST mercaptopyruvate sulfurtransferase [ Homo sapiens (human) ]                                                            |
| <b>Official Symbol</b> | MPST                                                                                                                        |
| <b>Synonyms</b>        | MPST; mercaptopyruvate sulfurtransferase; 3-mercaptopyruvate sulfurtransferase; human liver rhodanese; MST; TST2; MGC24539; |
| <b>Gene ID</b>         | 4357                                                                                                                        |
| <b>mRNA Refseq</b>     | NM_001013440                                                                                                                |
| <b>Protein Refseq</b>  | NP_001013458                                                                                                                |
| <b>MIM</b>             | 602496                                                                                                                      |

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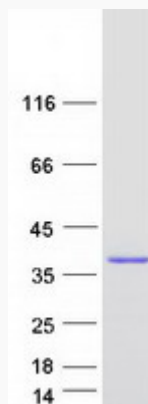
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UniProt ID

P25325

SDS-PAGE

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