

## Product datasheet for **TP325408M**

### MPST (NM\_001130517) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human mercaptopyruvate sulfurtransferase (MPST), nuclear gene encoding mitochondrial protein, transcript variant 3, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC225408 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MASPQLCRALVSAQWVAEALRAPRAGQPLQLLDASWYLPKLGRDARREFEERHIPGAAFFDIDQCSDRTS PYDHMLPGAHEHFAEYAGRLGVGAATHVVIYDASDQGLYSAPRVWWMFRAFGHHAVSLLDGGLRHWLRQNL PLSSGKSQPAPAEFRAQLDPAFIKTYEDIKENLESRRFQVDSRATGRFRGTEPEPRDGIPEGHIPGTVN IPFTDFLSQEGLEKSPPEIRHLFQEKKVDLSKPLVATCGSGVTACHVALGAYLCGKPDVPIYDGSWVEWY MRARPEDVISEGRGKTH
	<b>TR</b> TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	33 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_001123989</a>
Locus ID:	4357



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UniProt ID: [P25325](#), [A0A140VJX3](#)

RefSeq Size: 1547

Cytogenetics: 22q12.3

RefSeq ORF: 891

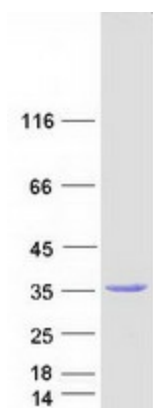
Synonyms: MST; TST2; TUM1

**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Cysteine and methionine metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified MPST protein (Cat# [TP325408]). The protein was produced from HEK293T cells transfected with MPST cDNA clone (Cat# [RC225408]) using MegaTran 2.0 (Cat# [TT210002]).