

Recombinant Mouse Mpst Protein, Myc/DDK-tagged

Cat. No. Mpst-4129M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length mercaptopyruvate sulfurtransferase (Mpst), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Transfer of a sulfur ion to cyanide or to other thiol compounds. Also has weak rhodanese activity. Detoxifies cyanide and is required for thiosulfate biosynthesis. Acts as an antioxidant. In combination with cysteine aminotransferase (CAT), contributes to the catabolism of cysteine and is an important producer of hydrogen sulfide in the brain, retina and vascular endothelial cells. Hydrogen sulfide H ₂ S is an important synaptic modulator, signaling molecule, smooth muscle contractor and neuroprotectant. Its production by the 3MST/CAT pathway is regulated by calcium ions.
Molecular Mass	33 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Mpst mercaptopyruvate sulfurtransferase [Mus musculus (house mouse)]
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Official Symbol	Mpst
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Synonyms	MPST; mercaptopyruvate sulfurtransferase; 3-mercaptopyruvate sulfurtransferase; Mst
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Gene ID	246221
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mRNA Refseq	NM_138670
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Protein Refseq	NP_619611
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UniProt ID	Q3UW66
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