Recombinant Human 3-mercaptopyruvate sulfurtransferase (MPST)

Product Code	CSB-YP014770HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P25325
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	ASPQLCRAL VSAQWVAEAL RAPRAGQPLQ LLDASWYLPK LGRDARREFE ERHIPGAAFF DIDQCSDRTS PYDHMLPGAE HFAEYAGRLG VGAATHVVIY DASDQGLYSA PRVWWMFRAF GHHAVSLLDG GLRHWLRQNL PLSSGKSQPA PAEFRAQLDP AFIKTYEDIK ENLESRRFQV VDSRATGRFR GTEPEPRDGI EPGHIPGTVN IPFTDFLSQE GLEKSPEEIR HLFQEKKVDL SKPLVATCGS GVTACHVALG AYLCGKPDVP IYDGSWVEWY MRARPEDVIS EGRGKTH
Source	Yeast
Target Names	MPST
Protein Names	Recommended name: 3-mercaptopyruvate sulfurtransferase Short name= MST EC= 2.8.1.2
Expression Region	2-297
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.