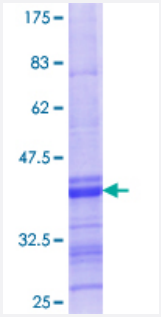
MPST (Human) Recombinant Protein (Q01)

Catalog # H00004357-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MPST partial ORF (NP_001013454.1, 1 a.a. - 100 a.a.) recombinant protein with GST-tag a t N-terminal.
Sequence	MASPQLCRALVSAQWVAEALRAPRAGQPLQLLDASWYLPKLGRDARREFEERHIPGAAFFDIDQ CSDRTSPYDHMLPGAEHFAEYAGRLGVGAATHVVIY
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MPST

Entrez GeneID	4357
GeneBank Accession#	NM_001013436
Protein Accession#	NP_001013454.1
Gene Name	MPST
Gene Alias	MGC24539, MST, TST2
Gene Description	mercaptopyruvate sulfurtransferase
Omim ID	602496
Gene Ontology	Hyperlink
Gene Summary	This protein encoded by this gene catalyzes the transfer of a sulfur ion from 3-mercaptopyruvate t o cyanide or other thiol compounds. It may be involved in cysteine degradation and cyanide detoxi fication. There is confusion in literature between this protein (mercaptopyruvate sulfurtransferase, MPST), which appears to be cytoplasmic, and thiosulfate sulfurtransferase (rhodanese, TST, Gen eID: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 spl iced transcript variants encoding same or different isoforms have been identified for this gene. [pr ovided by RefSeq
Other Designations	3-mercaptopyruvate sulfurtransferase|OTTHUMP00000028670|human liver rhodanese

Pathway

- Cysteine and methionine metabolism
- Metabolic pathways