

AR50684PU-N

Human MPST (1-297, His-tag) - Purified

Alternate names:

3-mercaptopyruvate sulfurtransferase, MST, TST2

Quantity:

0.5 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

MPST 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.

Uniprot ID:
[P25325](#)
NCBI:
[NP_001013454](#)
GeneID:
[4357](#)
Species:

Human

Source:

E. coli

Format:
State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Description:

Recombinant human MPST protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSHPASPQL CRALVSAQWV AEALRAPRAG QPLQLLDASW
YLPKLGRDAR REFEERHPIG AAFDIDQCS DRTSPYDHML PGAEHFAEYA GRLGVGAATH
VVIYDASDQG LYSAPRVWWM FRAFGHHAHV LLDGGLRHWL RQNLPLSSGK SQPAPAEFRA
QLDPAFIKTY EDIKENLESR RFQVDSRAT GRFRGTEPEP RDGIEPGHIP GTVNIPFTDF
LSQEGLEKSP EEIRHLFQEK KVDLSKPLVA TCGSGVTACH VALGAYLCGK PDVPIYDGSW
VEWYMRARPE DVISEGRGKT H

Molecular weight: 35 kDa (321aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

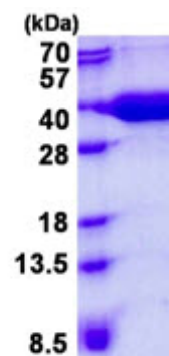
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Billaut-Laden I, Rat E, et al. (2006). Toxicol Lett. 165(2):101-11.

Pictures:



15% SDS-PAGE (3ug)