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Product datasheet for PH324963

MPST (NM_001013440) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MPST MS Standard C13 and N15-labeled recombinant protein (NP_001013458)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC224963
Predicted MW:	33.2 kDa
Protein Sequence:	>RC224963 protein sequence Red=Cloning site Green=Tags(s) MASPQLCRALVSAQWVAEALRAPRAGQPLQLLDASWYLPKLGRDARREFEERHIPGAAFFDIDQCSDRTS PYDHMLPGAEHFAEYAGRLGVGAATHVVIYDASDQGLYSAPRVWWMFRAFGHHAVSLLDGGLRHWLRQNL PLSSGKSQPAPAEFRAQLDPAFIKTYEDIKENLESRRFQVVDSRATGRFRGTEPEPRDGIEPGHIPGTVN IPFTDFLSQEGLEKSPEEIRHLFQEKKVDLSKPLVATCGSGVTACHVALGAYLCGKPDVPIYDGSWVEWY MRARPEDVISEGRGKTH TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001013458
RefSeq Size:	1626
RefSeq ORF:	891
Synonyms:	3-mercaptopyruvate sulfurtransferase; human liver rhodanese; mercaptopyruvate sulfurtransferase; MGC24539; MST; MST, TST2, MGC24539; OTTHUMP00000028670; TST2

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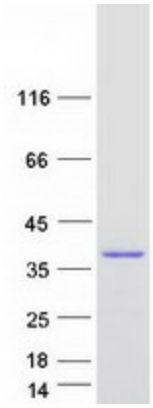
Locus ID:	4357
UniProt ID:	P25325
Cytogenetics:	22q12.3
Summary:	This protein encoded by this gene catalyzes the transfer of a sulfur ion from 3-mercaptopyruvate to cyanide or other thiol compounds. It may be involved in cysteine degradation and cyanide detoxification. There is confusion in literature 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# [TP324963]). The protein was produced from HEK293T cells transfected with MPST cDNA clone (Cat# [RC224963]) using MegaTran 2.0 (Cat# [TT210002]).