

Product datasheet for PH303765

MAT1A (NM_000429) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MAT1A MS Standard C13 and N15-labeled recombinant protein (NP_000420)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203765
Predicted MW:	43.6 kDa
Protein Sequence:	>RC203765 protein sequence Red=Cloning site Green=Tags(s)

MNGPVDGLCDHSLSEGVFMTSESVGEGHPDKICDQISDAVLD AHLKQDPNAKVACETVCKTGMVLLCGE
ITSMAMVDYQRVVRDTIKHIGYDDSAKGFDFKTCNVLVALEQQSPDIAQC VHLDRNEEDVGAGDQGLMFG
YATDETEECMPLTIILAHKLNARMADLRRSGLLPWLRPDSKTQVTVQYMQDNGAVIPVRIHTIVISVQHN
EDITLEEMRRALKEQVIRAVVPAKYLD EDTVYHLQPSGRFVIGGPQGDAGVTGRKIIIVDTYGGWGAHGGG
AFSGKDYTKVDRSAAYAARWVAKSLVKAGLCRRVLVQVSYAIGVAEPLSISIFTYGT SQKTERELLDVVH
KNFDLRPGVIVRDLDLKKPIYQKTACYGHFGRSEFPWEVPRKLVF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_000420
RefSeq Size:	3419
RefSeq ORF:	1185
Synonyms:	MAT; MATA1; SAMS; SAMS1
Locus ID:	4143



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UniProt ID: [Q00266](#)

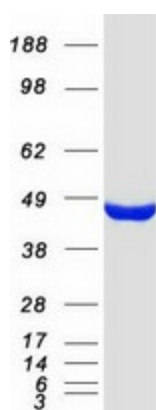
Cytogenetics: 10q22.3

Summary: This gene catalyzes a two-step reaction that involves the transfer of the adenosyl moiety of ATP to methionine to form S-adenosylmethionine and triphosphosphate, which is subsequently cleaved to PPi and Pi. S-adenosylmethionine is the source of methyl groups for most biological methylations. The encoded protein is found as a homotetramer (MAT I) or a homodimer (MAT III) whereas a third form, MAT II (gamma), is encoded by the MAT2A gene. Mutations in this gene are associated with methionine adenosyltransferase deficiency. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Cysteine and methionine metabolism, Metabolic pathways, Selenoamino acid metabolism

Product images:



Coomassie blue staining of purified MAT1A protein (Cat# [TP303765]). The protein was produced from HEK293T cells transfected with MAT1A cDNA clone (Cat# [RC203765]) using MegaTran 2.0 (Cat# [TT210002]).