

Recombinant Human MAT1A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MAT1A-5712H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MAT1A MS Standard C13 and N15-labeled recombinant protein (NP_000420) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	43.6 kDa
AA Sequence	MNGPVDGLCDHSLSEGVMFTSESVEGEGHPDKICDQISDAVLDAHLKQDPNAKVAC ETVCKTGMVLLCGEITSMAMVDYQRVVRDTIKHIGYDDSAKGFDFKTCNVLVALEQQ SPDIAQCVDHLDRNEEDVGAGDQGLMFGYATDETEECMPLTIILAHKLNARMADLRRS GLLPWLRPDSKTQVTQYMQDNGAVIPVRIHTIVISVQHNEDITLEEMRRALKEQVIR AVVPAKYLDEDTVYHLQPSGRFVIGGPQGDAGVTGRKIIVDTYGGWGAHGGGAFS GKDYTKVDRSAAYAARWVAKSLVKAGLCRRVLVQVSYAIGVAEPLSISIFTYGTSQK

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TERELLDVVHKNFDLRPGVIVRDLDLKKPIYQKTACYGHFGRSEFPWEVPRKLVFTR
TRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MAT1A methionine adenosyltransferase 1A [Homo sapiens (human)]

Official Symbol MAT1A

Synonyms MAT1A; methionine adenosyltransferase I, alpha; S-adenosylmethionine synthase isoform type-1; MAT; MATA1; S adenosylmethionine synthetase; SAMS; SAMS1; MAT 1; MAT-I/III; adoMet synthase 1; adoMet synthetase 1; methionine adenosyltransferase 1; methionine adenosyltransferase I/III; S-adenosylmethionine synthetase isoform type-1;

Gene ID 4143

mRNA Refseq NM_000429

Protein Refseq NP_000420

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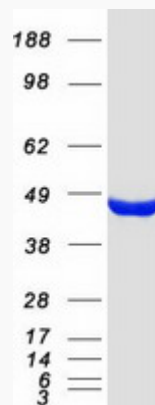
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MIM 610550

UniProt ID Q00266

SDS-PAGE



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