

Recombinant Full Length Human MAT1A Protein, C-Flag-tagged

Cat. No. MAT1A-1067HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MAT1A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	43.5 kDa
AA Sequence	MNGPVDGLCDHSLSEGVMFTSESVEGEGHPDKICDQISDAVLDAHLKQDPNAKVAC ETVCKTGMVLLCGE ITSMAMVDYQRRVVRTIKHIGYDDSAKGFDFKTCNVLVALEQ QSPDIAQCVHLDRNEEDVGAGDQGLMFG YATDETEECMPLTIILAHKLNARMADLR RSGLLPWLRPDSKTQVTQVMQDNGAVIPVRIHTIVISVQHN EDITLEEMRRALKEQ VIRAVVPAKYLDEDTVYHLQPSGRFVIGGPQGDAGVTGRKIIVDTYGGWGAHGGG A

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FSGKDYTKVDRSAAYAARWVAKSLVKAGLCRRVLVQVSYAIGVAEPLSISIFTYGTS
QKTERELLDVVH
KNFDLRPGVIVRDLDLKKPIYQKTACYGHFGRSEFPWEVPRKLVFTRTRPLEQKLISE
EDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Cysteine and methionine metabolism, Metabolic pathways, Selenoamino acid metabolism
Full Length	Full L.

GENE INFORMATION

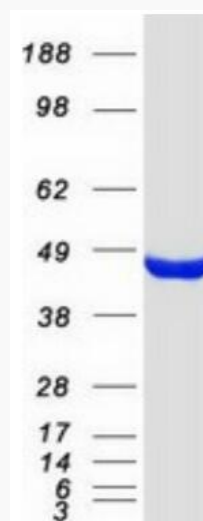
Gene Name	MAT1A methionine adenosyltransferase 1A [Homo sapiens (human)]
Official Symbol	MAT1A
Synonyms	MAT; SAMS; MATA1; SAMS1

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Gene ID	4143
mRNA Refseq	NM_000429.3
Protein Refseq	NP_000420.1
MIM	610550
UniProt ID	Q00266



Coomassie blue staining of purified MAT1A protein.