

Methionine Adenosyltransferase I, Alpha Recombinant Protein | MAT1A recombinant protein

Recombinant Human Methionine Adenosyltransferase I, Alpha

CATALOG # AAA38757	HOST Escherichia Coli
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PRODUCT SYNONYMS

Methionine Adenosyltransferase I; Alpha; Recombinant Human Methionine Adenosyltransferase I; MAT1A Human; Methionine Adenosyltransferase I Alpha Human Recombinant; EC 2.5.1.6; MAT; MATA1; SAMS; SAMS1; Methionine adenosyltransferase 1; S-adenosylmethionine synthase isoform type-1; AdoMet synthase 1; MAT 1; Methionine adenosyltransferase I/III; MAT-I/III; MAT1A; AMS1; MAT1A recombinant protein

PRODUCT SPECIFICATIONS

Host	Escherichia Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The MAT1A protein solution (0.5 mg/ml) contains 20mM Tris-HCl pH-8, 1mM DTT, 100mM NaCl and 10% glycerol.
Sequence	MGSSHHH HHSSGLVPRG SHMNGP VDGLCDHSLS EGVFMFTSES VEGEGHPDKIC DQISDAVLDA HLKQDPNAKV ACETVCKTGM VLLCGEITSM AMVDYQRVVR DTIKHIGYDD SAKGFDFKTC NVLVALEQQS PDIAQCVHLD RNEEDVGAGD QGLMFGYATD ETEECMPLTI ILAHKLNARM ADLRRSGLLP WLRPDSKTQV TVQYMQDNGA VIPVRIHTIV ISVQHNEEDIT LEEMRRALKE QVIRAVVPAK YLDEDTVYHL QPSGRFVIGG PQGDAGVTGR KIIVDYGGW GAHGGGAFSG KDYTKVDRSA AYAARWVAKS LVKAGLCRRV LVQVSYAIGV AEPLSISIFT YGTSQKTERE LLDVVHKNFD LRPGVIVRDL DLKKPIYQKT ACYGHFGRSE FPWEVPRKL V F
Sequence Length	395
Physical Appearance	Sterile Filtered colorless solution.
Preparation and Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for MAT1A recombinant protein	Description: MAT1A Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 414 amino acids (1-395 a.a.) and having a molecular mass of 45.6 kDa. The MAT1A is fused to a 20 amino acid his tag at N-terminus and purified by conventional chromatography. Introduction: MAT1A 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. MAT1A 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 MAT1A gene are associated with methionine adenosyltransferase deficiency. MAT1A expression also correlates with a differentiated phenotype, whereas liver cells expressing MAT2A present a dedifferentiated phenotype and lowered AdoMet synthesis. Likewise, NFkappaB and TNFalpha cause a switch from MAT1A to MAT2A expression in human hepatocellular carcinoma (HCC), which facilitates cancer cell growth.
Product Categories/Family for MAT1A recombinant protein	Enzymes; Transferase

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557737
NCBI GeneID	4143
NCBI Accession #	NP_000420.1
NCBI GenBank Nucleotide #	NM_000429.2
UniProt Accession #	Q00266; Q5QP09; D3DWD5
NCBI Official Full Name	S-adenosylmethionine synthase isoform type-1
NCBI Official Synonym Full Names	methionine adenosyltransferase I, alpha
NCBI Official Symbol	MAT1A
NCBI Official Synonym Symbols	MAT; SAMS; MATA1; SAMS1
NCBI Protein Information	S-adenosylmethionine synthase isoform type-1; MAT 1; MAT-I/III; S-adenosylmethionine synthetase isoform type-1; adoMet synthase 1; adoMet synthetase 1; methionine adenosyltransferase 1; methionine adenosyltransferase I/III
UniProt Protein Name	S-adenosylmethionine synthase isoform type-1
UniProt Gene Name	MAT1A
UniProt Synonym Gene Names	AMS1; MATA1; AdoMet synthase 1; MAT 1; MAT-I/III
UniProt Entry Name	METK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mat1a-recombinant-protein-escherichia-coli/38757>