

Recombinant Human Methionine adenosyltransferase I, alpha, His-tagged

Cat. No. MAT1A-1945H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAT1A protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques, 45.6 kDa (414aa).
Species	Human
Source	E.coli
Description	MAT1A catalyzes the formation of S-adenosyltransferase (AdoMet) for methionine catabolism in the liver. MAT1A expression also correlates with a differentiated phenotype, whereas liver cells expressing MAT2A present a dedifferentiated phenotype and lowered AdoMet synthesis. Likewise, NFκB and TNFα cause a switch from MAT1A to MAT2A expression in human hepatocellular carcinoma (HCC), which facilitates cancer cell growth.
Purity	> 95% by SDS – PAGE.
Physical Appearance	Liquid.
Formulation	In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 0.1M NaCl, 10% glycerol.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino	MGSSHHHHHS SGLVPRGSHM NGPVDGLCDH SLSEGVFMFT SESVGEGHPD

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Acids	KICDQISDAV LDAHLKQDPN AKVACETVCK TGMVLLCGEI TSMAMVDYQR VVRDTIKHIG YDDSAKGDFD KTCNVLVALE QQSPDIAQCV HLDNRNEEDVG AGDQGLMFGY ATDETEECMP LTIILAHKLN ARMADLRRSG LLPWLRPDSK TQVTVQYMQD NGAVIPVRIH TIVISVQHNE DITLEEMRRA LKEQVIRAVV PAKYLDEDTV YHLQPSGRFV IGGPQGDAGV TGRKIIVDTY GGWGAHGGGA FSGKDYTKVD RSAAYAARWV AKSLVKAGLC RRVLVQVSYA IGVAEPLSIS IFTYGTSQKT ERELLDVVHK NFDLRPGVIV RDLDLKKPIY QKTACYGHFG RSEFPWEVPR KLVF.
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Cysteine and methionine metabolism; Metabolic pathways; Selenoamino acid metabolism; Biological oxidations

GENE INFORMATION

Gene Name	MAT1A methionine adenosyltransferase I, alpha [Homo sapiens]
Synonyms	MAT1A; methionine adenosyltransferase I, alpha; Ams; MAT; SAMS; MATA1; SAMS1; AdoMet; AI046368; MAT 1; adoMet synthetase 1; methionine adenosyltransferase 1; S-adenosylmethionine synthetase isoform type-1; AdoMet synthetase; EC 2.5.1.6; MAT-I/III; AMS1; Methionine adenosyltransferase I/III
Gene ID	4143
mRNA Refseq	NM_000429
Protein Refseq	NP_000420
MIM	610550

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UniProt ID	Q00266
Chromosome Location	10q22
Function	ATP binding; metal ion binding; methionine adenosyltransferase activity; nucleotide binding; transferase activity

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