Recombinant Human Methionine Adenosyltransferase II, Alpha, His-tagged

Cat. No. MAT2A-113H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant MAT2A, fused to His-tag at N-terminus, was expressed in E.coli and purified by conventional chromatography techniques, 45.8 kDa (415 aa).
Species	Human
Source	E.coli
Description	Methionine adenosyltransferase II (MAT II) is a key enzyme in cellular metabolism and catalyzes the formation of S-adenosylmethionine (SAMe) from L-methionine and ATP. MAT2A is expressed in extrahepatic tissues. In liver, MAT2A expression associates with growth, dedifferentiation, and cancer.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MNGQLNGFHE AFIEEGTFLF TSESVGEGHP DKICDQISDA VLDAHLQQDP DAKVACETVA KTGMILLAGE ITSRAAVDYQ KVVREAVKHI GYDDSSKGFD YKTCNVLVAL EQQSPDIAQG VHLDRNEEDI GAGDQGLMFG YATDETEECM PLTIVLAHKL NAKLAELRRN GTLPWLRPDS KTQVTVQYMQ DRGAVLPIRV HTIVISVQHD EEVCLDEMRD ALKEKVIKAV VPAKYLDEDT IYHLQPSGRF VIGGPQGDAG LTGRKIIVDT YGGWGAHGGG AFSGKDYTKV DRSAAYAARW VAKSLVKGGL CRRVLVQVSY AIGVSHPLSI SIFHYGTSQK SERELLEIVK KNFDLRPGVI VRDLDLKKPI YQRTAAYGHF GRDSFPWEVP KKLKY
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

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Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
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.

GENE INFORMATION

Gene Name	MAT2A methionine adenosyltransferase II, alpha [Homo sapiens]
Synonyms	MAT2A; methionine adenosyltransferase II, alpha; MATA2; MATII; SAMS2;EC2.5.1.6; SAMS2; MAT-II; S-adenosylmethionine synthetase isoform type-2; AMS2; MAT 2; Methionine adenosyltransferase 2; Methionine adenosyltransferase II
Gene ID	4144
mRNA Refseq	NM_005911
Protein Refseq	NP_005902
MIM	601468
UniProt ID	P31153
Chromosome Location	2p11.2
Pathway	Biological oxidations; Metabolism of amino acids; Metabolism of polyamines
Function	ATP binding; cobalt ion binding; magnesium ion binding; ; methionine

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	adenosyltransferase activity; nucleotide binding; potassium ion binding; protein binding; transferase activity

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