

Recombinant Human Methionine Adenosyltransferase II, Beta

Cat. No. MAT2B-1817H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAT II beta was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques. MW = 36.4 kDa (323aa).
Species	Human
Source	<i>E. coli</i>
Description	Methionine adenosyltransferase II, beta (MAT II beta) belongs to the methionine adenosyltransferase (MAT) family. MAT II beta catalyzes the biosynthesis of S-adenosylmethionine from methionine and ATP. This protein is the regulatory beta subunit of MAT. Its expression in hepatoma cell lines may lead to increase DNA synthesis and thereby participate to cell proliferation.
Amino Acid Sequence	MPEMPEDMEQ EEVNIPNRRV LVTGATGLLG RAVHKEFQQN NWHAVGCGFR RARKFEQVN LLDSNAVHHI IHDFQPHVIV HCAAERRPDV VENQPDAASQ LNVDSAGNLA KEAAAVGAFL IYISSDYVFD GTNPPYREED IPAPLNLYGK TKLDGEKAVL ENNLGAAVLR IPILYGEVEK LEESAVTVMF DKVQFSNKSA NMDHWQQRFP THVKDVATVC RQLAEKRMLD PSIKGTFHWS GNEQMTKYEM ACAIADAFNL PSSHLRPITD SPVLGAQRPR NTQLDCSKLE TLGIGQRTPF RIGIKESLWP FLIDKRWRQT VFH
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 1mM EDTA, 10% glycerol.
Purity	> 90% by SDS – PAGE.

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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	MAT2B methionine adenosyltransferase II, beta [Homo sapiens]
Synonyms	MAT2B; methionine adenosyltransferase II, beta; TGR; MAT-II; SDR23E1; MGC12237; MATIIBeta; Nbla02999; putative protein product of Nbla02999; dTDP-4-keto-6-deoxy-D-glucose 4-reductase; short chain dehydrogenase/reductase family 23E, member 1; beta regulatory subunit of methionine adenosyltransferase; EC 2.5.1.6; Nbla02999; MAT II beta; Methionine adenosyltransferase 2 beta subunit; Methionine adenosyltransferase II beta
Gene ID	27430
mRNA Refseq	NM_013283
Protein Refseq	NP_037415
MIM	605527
UniProt ID	Q9NZL9
Chromosome Location	5q34-q35
Pathway	Cysteine and methionine metabolism; Metabolic pathways; Selenoamino acid metabolism

Function

catalytic activity; dTDP-4-dehydrorhamnose reductase activity; methionine adenosyltransferase regulator activity; protein binding

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