

Recombinant human MAT2A protein

Catalog Number: MAT0901

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-395aa

UniProt No.

P31153

NCBI Accession No.

NP_005902

Alternative Names

Methionine adenosyltransferase II alpha, MATA2, MATII, SAMS2, Methionine adenosyltransferase II alpha, MAT2A, Methionine adenosyltransferase II, alpha AdoMet synthetase, AdoMet synthetase 2, AMS 2, MAT II, MATA 2, Methionine adenosyltransferase, Methionine adenosyltransferase 2, SAMS 2, Methionine adenosyltransferase II, S adenosylmethionine synthetase gamma form, S adenosylmethionine synthetase isoform type 2, S-adenosylmethionine synthetase isoform type 2

PRODUCT SPECIFICATION

Molecular Weight

45.8 kDa (415aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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,

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MAT2A expression associates with growth, dedifferentiation, and cancer. Recombinant MAT2A, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by conventional chromatography techniques

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MNGQLNGFHE AFIEEGTFLF TSEVSGEGHP DKICDQISDA VLDAHLQQDP DAKVACETVA
KTGMILLAGE ITSRAAVDYQ KVVREAVKHI GYDDSSKGFY YKTCNVLVAL EQQSPDIAQG VHLDRNEEDI GAGDQGLMFG
YATDETEECM PLTIVLAHKL NAKLAELRRN GTLPWLRPDS KTQVTVQYMQ DRGAVLPIRV HTIVISVQHD EEVCLDEMMD
ALKEKVIKAV VPAKYLDEDT IYHLQPSGRF VIGGPQGDAG LTGRKIIVDT YGGWGAHGGG AFSGKDYTKV DRSAAYAARW
VAKSLVKGGL CRRVLVQVSY AIGVSHPLSI SIFHYGTSQK SERELLEIVK KNFDLRPGVI VRDLDLKKPI YQRTAAYGHF
GRDSFPWEVP KKLKY

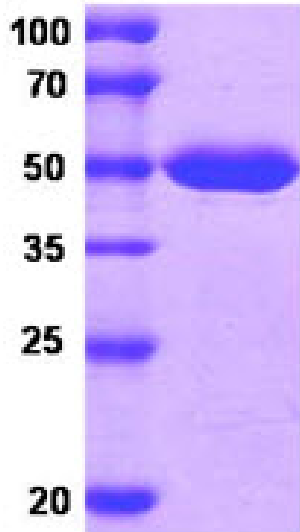
General References

Ramani K., et al. (2008). *Hepatology*. 47(2):521-31.
Chen H., . (2007) *Gastroenterology*. 133(1):207-18.

DATA

SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)