

AR09388PU-L**Human MAT1A (1-395, His-tag) - Purified****Alternate names:**

AMS1, AdoMet synthetase 1, MAT 1, MAT-I/III, MATA1, Methionine adenosyltransferase 1, Methionine adenosyltransferase I/III, S-adenosylmethionine synthetase isoform type-1

Quantity:

0.25 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q00266](#)

NCBI:

[NP_000420](#)

GeneID:

[4143](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 0.1 M NaCl, 10% glycerol

Description:

Recombinant human MAT1A protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHS SGLVPRGSHM NGPVDGLCDH SLSEGVFMFT SESVGEHHPD KICDQISDAV
LDAHLKQDPN AKVACETVCK TGMVLLCGEI TSMAMVDYQR VVRDTIKHIG YDDSAKGFDF
KTCNVLVALE QQSPDIAQCV HLDNRNEEDVG AGDQGLMFGY ATDETEECMP LTII LAHKLN
ARMADLRRSG LLPWLRPDSK TQVTVQYMQD NGAVIPVRIH TIVISVQHNE DITLEEMRRA
LKEQVIRAVV PAKYLDEDTV YHLQPSGRFV IGGPQGDAGV TGRKIIVDTY GGWGAHGGGA
FSGKDYTKVD RSAAYAARWV AKSLVKAGLC RRVLVQVSYA IGVAEPLSIS IFTYGT SQKT
ERELLDVVHK NFDLRPGVIV RDLDLKKPIY QKTACYGHFG RSEFPWEVPR KLVF

Molecular weight: 45.6 kDa (414 aa)

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

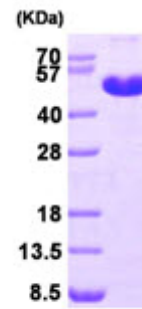
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Tomasi ML., et al. (2009) Gastroenterology. 136(3):1025-36.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human MAT1A, 1-395 aa,
His-tagged: 15% SDS-PAGE (3 µg)

