

MAT1A recombinant protein

MAT1A, 1-395aa, Human, His tag, E Coli

CATALOG # AAA11796	HOST E Coli	APPLICATIONS SDS-Page
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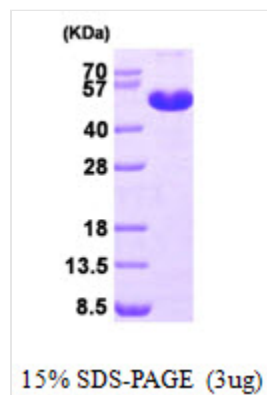
PRODUCT SYNONYMS

MAT1A; 1-395aa; Human; His tag; E Coli; S-adenosylmethionine synthetase; MAT; MATA1; SAMS; SAMS1; methionine adenosyltransferase I alpha; ; MAT1A recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 1mM DTT, 0.1M NaCl, 10% glycerol
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MNGPVDGL CDHSLSEGVF MFTSESVGEG HPDKICDQIS DAVLDAHLKQ DPNKVACET VCKTGMVLLC GEITSMAMVD YQRVVRDTIK HIGYDDSAKG FDFKTCNVLV ALEQQSPDIA QCVHLDRNEE DVGAGDQGLM FGYATDETEE CMLPTIILAH KLNARMADLR RSGLLPWLRP DSKTQVTVQY MQDNGAVIPV RIHTIVISVQ HNEDITLEEM RRALKEQVIR AVVPAKYLDE DTVYHLQPSG RFVIGGPQGD AGVTGRKIIV DTYGGWGAHG GGAFSGKDYT KVDRSAAYAA RWVAKSLVKA GLCRRVLVQV SYAIGVAEPL SISIFTYGTG QKTERELLDV VHKNFDLRPG VIVRDLDLKK PIYQKTACYG HFGRSEFPWE VPRKLVF
Sequence Length	1-395
Applicable Applications for MAT1A recombinant protein	SDS-PAGE
Tag	His-tag
Domain	1-395aa
Preparation and Storage	Can be stored 2°C to 8°C for 1 week. For long term storage, aliquot and store at 20°C to 80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for MAT1A recombinant protein	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, NFkappaB and TNFalpha cause a switch from MAT1A to MAT2A expression in human hepatocellular carcinoma (HCC), which facilitates cancer cell growth. Recombinant human MAT1A protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for MAT1A recombinant protein	Metabolism
References	Ding W., et al. (2009) Hepatology. 49 (4):1277-86. ; Tomasi ML., et al. (2009) Gastroenterology. 136 (3):1025-36.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557737
NCBI GeneID	4143
NCBI Accession #	NP_000420.1
NCBI GenBank Nucleotide #	NM_000429.2
UniProt Accession #	Q00266; Q5QP09; D3DWD5
Molecular Weight	45.8 kDa (415aa), confirmed by MALDI-TOF.
NCBI Official Full Name	S-adenosylmethionine synthase isoform type-1
NCBI Official Synonym Full Names	methionine adenosyltransferase 1A
NCBI Official Symbol	MAT1A
NCBI Official Synonym Symbols	MAT; SAMS; MATA1; SAMS1
NCBI Protein Information	S-adenosylmethionine synthase isoform type-1; S-adenosylmethionine synthase
UniProt Protein Name	S-adenosylmethionine synthase isoform type-1
UniProt Gene Name	MAT1A
UniProt Synonym Gene Names	AMS1; MATA1; AdoMet synthase 1; MAT 1; MAT-I/III

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.