
Product Data Sheet

Product Name: MAT2A Human

Cat. No.: GP21902

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	MATA2; MATII; SAMS2; MAT-2A; S-adenosylmethionine synthetase isoform type-2; AdoMet synthetase 2; Methionine adenosyltransferase 2; Methionine adenosyltransferase II; MAT2A; AMS2.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MNGQLNGFHE AFIEEGTFLF TSESVGEGHP DKICDQISDA VLDAHLQQDP DAKVACETVA KTGMILLAGE ITSRAAVDYQ KVVREAVKHI GYDDSSKGFY YKTCNVLVAL EQQSPDIAQG VHLDNRNEEDI 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.</p>		
Formulation	The MAT2A solution (1mg/ml) contains 20mM Tris pH-8 & 10% glycerol.		

Introduction

MAT2A is an important 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. NF-kappa B and AP-1 are necessary for basal MAT2A expression in HepG2 cells and mediate the increase in MAT2A expression in response to TNF-alpha. Up-regulation of MAT2A provides growth improvement and s-adenosylmethionine and methylthioadenosine thus can block mitogenic signaling in colon cancer cells. Lower expression of both MAT2A and MAT2beta and interfere with leptin signaling in liver cancer cells.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

MAT2A Human Recombinant fused with His tag (20 a.a.) at C-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 415 amino acids and having a molecular mass of 45.8 kDa. The MAT2A is purified by proprietary chromatographic techniques.

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