AMD1
Recombinant Human Methionine Adensyltransferase II Alpha His

Catalog No.	CSI10721	**Quantity:**	5 µg
	CSI10722		20 µg
	CSI10723		1.0 mg

Alternate Names: MATA2, MATII, SAMS2, MAT-2A, S-adenosylmethionine synthetase isoform type-2, AdoMet synthetase 2, Methionine adenosyltransferase 2, Methionine adenosyltransferase II, MAT2A, AMS2.

Description: 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.
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.

Physical Appearance: Sterile Filtered colorless solution.

Gene ID: 262

Source: *E. coli*

Molecular Mass: 45.8 kDa

Formulation: The MAT2A solution (1mg/ml) contains 20mM Tris pH-8 & 10% glycerol.

Purity: > 95% as determined by SDS-PAGE analysis

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MNGQLNGFHE AFIEEGTFLF TSESVGEGHP DKICDQISDA VLDAHLQQDP DAKVACETVA KTGMILLAGE ITSRAAVDYQ KVVREAVKHI GYDDSSKGFD YKTCNVLVAL EQQSPDIAQG VHLDRNEEDI GAGDQGLMFG YATDETEECM PLTIVLAHKL NAKLAELRRN GTLPWLRPDS KTQVTVQYMQ DRGAVLPIRV HTIVISVQHD EEVCLDEMRD ALKEKVIKAV VPAKYLDEDT IYHLQPSGRF VIGGPQGDAG LTGRKIIVDT YGGWGAHGGG AFSGKDYTKV DRSAAYAARW VAKSLVKGGL CRRVLVQVSY AIGVSHPLSI SIFHYGTSQK SERELLEIVK KNFDLRPGVI VRDLDLKKPI YQRTAAYGHF GRDSFPWEVP KKLKY.

Storage & Stability: MAT2A although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please prevent freeze-thaw cycles.**

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