

MAT2A Human

Description: 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.

Catalog #: ENPS-327

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

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MNGQLNGFHE AFIEEGTFLF
TSESVGEGHP DKICDQISDA VLDAHLQQDP DAKVACETVA KTG MILLAGE ITSRAAVDYQ
KVVREAVKHI GYDDSSKGFY YKTCNVLVAL EQQSPDIAQG VHLDRNEEDI GAGDQGLMFG
YATDETEECM PLTIVLAHKL NAKLAELRRN GTLPWLRPDS KTQVTVQYMQ DRGAVLPIRV
HTIVISVQHD EE

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

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

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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