

**MAT1A, 1-395aa, Human, His tag, E.coli**

**Cat.NO.: TP02916**

3th Edition

**Synonyms:**S-adenosylmethionine synthetase, MAT, MATA1, SAMS, SAMS1

**Description:**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, NF $\kappa$ B and TNF $\alpha$  cause a switch from MAT1A to MAT2A expression in human hepatocellular carcinoma (HCC), which facilitates cancer cell growth.

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT,0.1M NaCl, 10% glycerol

**Molecular Weight:**45.6 kDa (414aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMNGPVDGLCDHSLSEGVMFTSESVGEGHPDKICDQISDAVLDAHLKQDPNAKVA  
CETVCKTGMVLLCGEITSMAMVDYQRVVRDTIKHIGYDDSAKGFDFKTCNVLVALEQQSPDIAQC VHLDRNEEDVG  
AGDQGLMFGYATDETEECMPLTIILAHKLNARMADLRRSGLLPWLRPDSKTQVTVQYMQDNGAVIPVRIHTIVISVQ  
HNEDITLEEMRRALKEQVIRAVVPAKYLDEDTVYHLQPSGRFVIGGPQGDAGVTGRKIIVDTYGGWGAHGGGAFSG  
KDYTKVDRSAAYAARWVAKSLVKAGLCRRVLVQVSYAIGVAEPLSISIFTYGTSGKTERELLDVVHKNFDLRPGVIV  
RDLDLKKPIYQKTACYGHFGRSEFPWEVPRKLVF

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.