

Product datasheet for **AR09388PU-N**

MAT1A (1-395, His-tag) Human Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | MAT1A (1-395, His-tag) human recombinant protein, 50 µg |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | <u>MGSSHHHHHS SGLVPRGSHM</u> NGPVDGLCDH SLSEGVFMFT SESVGEGHPD KICDQISDAV LDAHLKQDPN AKVACETVCK TGMVLLCGEI TSMAMVDYQR VVRDTIKHIG YDDSAKGFDF KTCNVLVALE QQSPDIAQCV HLDRNEEDVG AGDQGLMFGY ATDETEECMP LTIILAHKLN ARMADLRRSG LLPWLRPDSK TQVTVQYMVD NGAVIPVRIH TIVISVQHNE DITLEEMRRA LKEQVIRAVV PAKYLDEDTV YHLQPSGRFV IGGPQGDAGV TGRKIIVDTY GGWGAHGGGA FSGKDYTEKVD RSAAYAARWV AKSLVKAGLC RRVLVQVSYA IGVAEPLSIS IFTYGTSTQKT ERELLDVVHK NFDLRPGVIV RDLDLKKPIY QKTACYGHFG RSEFPWEVPR KLVF |
| Tag: | His-tag |
| Predicted MW: | 45.6 kDa |
| Concentration: | lot specific |
| Purity: | >95% by SDS - PAGE |
| Buffer: | Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 0.1 M NaCl, 10% glycerol |
| Preparation: | Liquid purified protein |
| Protein Description: | Recombinant human MAT1A protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| Storage: | Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| RefSeq: | <u>NP_000420</u> |
| Locus ID: | 4143 |
| UniProt ID: | <u>Q00266</u> |
| Cytogenetics: | 10q22.3 |



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Synonyms: MAT; MATA1; SAMS; SAMS1

Summary: This gene catalyzes a two-step reaction that involves the transfer of the adenosyl moiety of ATP to methionine to form S-adenosylmethionine and triphosphosphate, which is subsequently cleaved to PPi and Pi. S-adenosylmethionine is the source of methyl groups for most biological methylations. The encoded protein is found as a homotetramer (MAT I) or a homodimer (MAT III) whereas a third form, MAT II (gamma), is encoded by the MAT2A gene. Mutations in this gene are associated with methionine adenosyltransferase deficiency. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Cysteine and methionine metabolism, Metabolic pathways, Selenoamino acid metabolism

Product images:

