

Recombinant Human Guanidinoacetate N-methyltransferase, His-tagged

Cat. No. GAMT-483H **Lot. No.** (See product label)

SPECIFICATION

| | |
|----------------------------|--|
| Product Overview | Recombinant human GAMT, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW= 28.4 kDa (256aa). |
| Species | Human |
| Source | E.coli |
| Description | Guanidinoacetate N-methyltransferase isoform a, also known as GAMT is a methyltransferase that converts guanidoacetate to creatine, using S-adenosylmethionine as the methyl donor. This enzyme participates in the two-step synthesis of the compound creatine from the protein building blocks glycine, arginine, and methionine. It is involved in providing energy for muscle contraction, and is also important in nervous system functioning. Also GAMT is active in the liver, pancreas, and kidneys. |
| Amino Acid Sequence | MGSSHHHHHH SSGLVPRGSH MSAPSATPIF APGENCSPAW GAAPAAAYDAA DTHLRILGKP VMERWETPYM HALAAAASSK GGRVLEVGFG MAIAASKVQE APIDEHWIIE CNDGVFQRLR DWAPRQTHKV IPLKGLWEDV APTLPDGHFD GILYDTYPLS EETWHTHQFN FIKNHAFRL KPGGVLTYCN LTSWGELMKS KYSDITIMFE ETQVPALLEA GFRRENIRTE VMALVPPADC RYYAFPQMIT PLVTKG |
| Form | Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol. |

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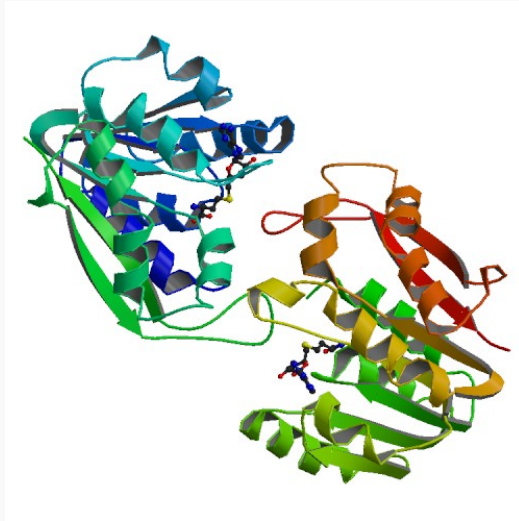
| | |
|----------------------------|---|
| Purity | > 95% by SDS – PAGE. |
| Concentration | 1 mg/ml (determined by Bradford assay). |
| Storage | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |
| GENE INFORMATION | |
| Gene Name | GAMT guanidinoacetate N-methyltransferase [Homo sapiens] |
| Synonyms | GAMT; guanidinoacetate N-methyltransferase; PIG2; TP53I2; EC 2.1.1.2 |
| Gene ID | 2593 |
| mRNA Refseq | NM_000156 |
| Protein Refseq | NP_000147 |
| MIM | 601240 |
| UniProt ID | Q14353 |
| Chromosome Location | 19p13.3 |
| Pathway | Arginine and proline metabolism; Glycine, serine and threonine metabolism; Metabolic pathways |
| Function | guanidinoacetate N-methyltransferase activity; methyltransferase activity; transferase activity |

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