

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 FIKNHAFRLL KPGGVLTYCN LTSWGELMKS KYSDITIMFE ETQVPALLEA GFRRENIRTE VMALVPPADC RYYAFPQMIT PLVTKG
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PDB rendering based
on 1khh.

