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**Product Data Sheet**

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Product Name: GAMT Human  
Cat. No.: GP21656  
Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PIG2; TP53I2; GAMT; Guanidinoacetate N-methyltransferase.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSAPSATPIF APGENCSPAW GAAPAAAYDAA DTHLRILGKP VMERWETPYM HALAAAASSK GGRVLEVGFG MAIAASKVQE APIDEHWIIE CNDGVFQRLR DWAPRQTHKV IPLKGLWEDV APTLPDGHFD GILYDTYPLS EETWHTHQFN FIKNHAFRLK KPGGVLTICN LTSWGELMKS KYSIDITIMFE ETQVPALLEA GFRRENIRTE VMALVPPADC RYYAFPQMIT PLVTKG.		
Formulation	The GAMT protein solution contains 20mM Tris-HCl, pH-8, 1mM DTT and 10% Glycerol.		

**Introduction**

GAMT is a methyltransferase that transfers guanidoacetate to creatine, using S-adenosylmethionine as the methyl donor. Defects GAMT gene result in neurologic syndromes and muscular hypotonia, probably due to creatine deficiency and accumulation of guanidinoacetate in the brain of affected individuals. GAMT take parts in the two-step synthesis of creatine from the protein building blocks glycine, arginine, and methionine. GAMT takes part in supplying the energy for muscle contraction, and is in addition a significant player in nervous system functioning. GAMT is active in the liver, pancreas, and kidney.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Recombinant Human GAMT produced in E.Coli is a single, non-glycosylated polypeptide chain containing 256 amino acids (1-236 a.a) and having a molecular mass of 28.4 kDa. GAMT is fused to a 20 amino acids His-Tag at N-terminus and purified by conventional chromatography techniques.

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