

## 32-2347: GAMT Recombinant Protein

**Alternative Name :** PIG2,TP53I2,GAMT,Guanidinoacetate N-methyltransferase.

### Description

Source : Escherichia Coli. 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 20 amino acid His-Tag at N-terminus and purified by conventional chromatography techniques. 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.

### Product Info

<b>Amount :</b>	25 µg
<b>Purification :</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Content :</b>	The GAMT protein solution contains 20mM Tris-HCl, pH-8, 1mM DTT and 10% Glycerol.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MGSSHHHHHH SSGLVPRGSH MSAPSATPIF APGENCSPAW GAAPAAYDAA DTHLRILGKP VMERWETPYM HALAAAASSK GGRVLEVGFG MAIAASKVQE APIDEHWIIE CNDGVFQRLR DWAPRQTHKV IPLKGLWEDV APTLPDGHFD GILYDTYPLS EETWHTHQFN FIKNHAFRL KPGGVLTYCN LTSWGELMKS KYSDITIMFE ETQVPALLEA GFRRENIRTE VMALVPPADC RYYAFPQMIT PLVTKG.

