

GAMT Human

Description: 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.

Catalog #: ENPS-467

For research use only.

Synonyms: PIG2, TP53I2, GAMT, Guanidinoacetate N-methyltransferase.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MSAPSATPIF APGENCSPAW
GAAPAAAYDAA DTHLRILGKP VMERWETPYM HALAAAASSK GGRVLEVGFG MAIAASKVQE
APIDEHWIIE CNDGVFQRLR DWAPRQTHKV IPLKGLWEDV APTLPDGHFD GILYDTPYLS
EETWHTHQFN FIKNHAFRLI KPGGVLTTCN LSWGELMKS KYSDITIMFE ETQVPALLEA
GFRRENIRTE VM

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The GAMT protein solution contains 20mM Tris-HCl, pH-8, 1mM DTT and 10% Glycerol.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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 guanidoacetate 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.

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