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Recombinant human GAMT protein

Catalog Number: ATGP0424

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-236aa

UniProt No.
Q14353

NCBI Accession No.
NP_000147

Alternative Names
Guanidinoacetate N-methyltransferase isoform a, PIG2, TP53I2, Guanidinoacetate N-methyltransferase isoform a Guanidinoacetate N methyltransferase.

PRODUCT SPECIFICATION

Molecular Weight
28.4 kDa (256aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT,10% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Guanidinoacetate N-methyltransferase isoform a, also known as GAMT is a methyltansferase that converts guanidoacetate to creatine, using S-adenosylmethionine as the methyl domor. 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. Recombinant human GAMT, fused to His-tag at N-

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terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

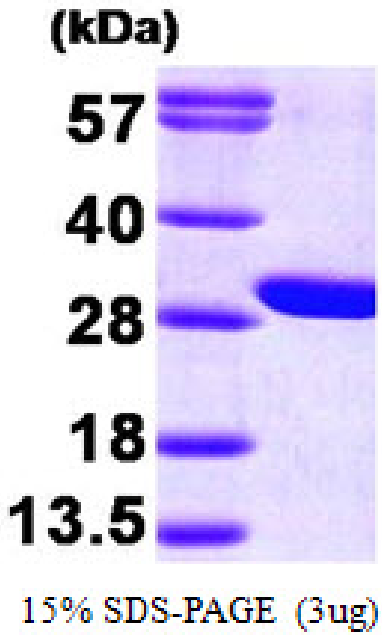
MGSSHHHHHH SSGLVPRGSH MSAPSATPIF APGENCSPAW GAAPAAYDAA DTHLRILGKP VMERWETPYM HALAAAASSK GGRVLEVGFG MAIAASKVQE APIDEHWIIE CNDGVFQRLR DWAPRQTHKV IPLKGLWEDV APTLPDGHFD GILYDTYPLS EETWHTHQFN FIKNHAFRLL KPGGVLTYCN LTSWGELMKS KYSDITIMFE ETQVPALLEA GFRRENIRTE VMALVPPADC RYYAFPQMIT PLVTKG

General References

Almeida LS., et al. (2007) Mol Genet Metab. 91(1):1-6.
Jenne DE., et al. (1997) Biochem Biophys Res Commun. 238(3):723-7.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.