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Product datasheet for TP300528L

GAMT (NM_000156) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human guanidinoacetate N-methyltransferase (GAMT), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	Recombinant protein was produced with TrueORF clone, RC200528.
Tag:	C-Myc/DDK
Predicted MW:	26.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000147
Locus ID:	2593
UniProt ID:	Q14353, V9HWB2
RefSeq Size:	1138
Cytogenetics:	19p13.3
RefSeq ORF:	708
Synonyms:	CCDS2; HEL-S-20; PIG2; TP53I2

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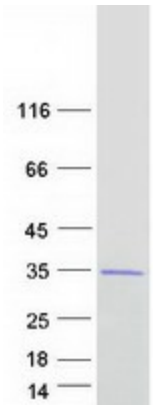
Summary: The protein encoded by this gene is a methyltransferase that converts guanidoacetate to creatine, using S-adenosylmethionine as the methyl donor. Defects in this gene have been implicated in neurologic syndromes and muscular hypotonia, probably due to creatine deficiency and accumulation of guanidinoacetate in the brain of affected individuals. Two transcript variants encoding different isoforms have been described for this gene. Pseudogenes of this gene are found on chromosomes 2 and 13. [provided by RefSeq, Feb 2012]

Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Glycine, serine and threonine metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified GAMT protein (Cat# [TP300528]). The protein was produced from HEK293T cells transfected with GAMT cDNA clone (Cat# [RC200528]) using MegaTran 2.0 (Cat# [TT210002]).