

Product datasheet for PH300528

GAMT (NM_000156) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GAMT MS Standard C13 and N15-labeled recombinant protein (NP_000147)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200528
Predicted MW:	26.3 kDa
Protein Sequence:	RC200528
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000147
RefSeq Size:	1138
RefSeq ORF:	708
Synonyms:	CCDS2; HEL-S-20; PIG2; TP53I2
Locus ID:	2593
UniProt ID:	Q14353 , V9HWB2
Cytogenetics:	19p13.3



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Summary:

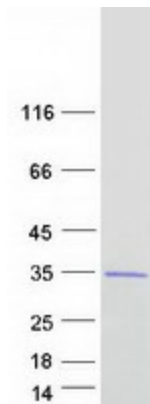
The protein encoded by this gene is a methyltransferase that converts guanidoacetate to creatine, using S-adenosylmethionine as the methyl donor. Defects in this gene have been implicated in neurologic syndromes and muscular hypotonia, probably due to creatine deficiency and accumulation of guanidinoacetate 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]).