

Recombinant Full Length Human GATM Protein, C-Flag-tagged

Cat. No. GATM-833HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GATM Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a mitochondrial enzyme that belongs to the amidinotransferase family. This enzyme is involved in creatine biosynthesis, whereby it catalyzes the transfer of a guanido group from L-arginine to glycine, resulting in guanidinoacetic acid, the immediate precursor of creatine. Mutations in this gene cause arginine:glycine amidinotransferase deficiency, an inborn error of creatine synthesis characterized by cognitive disability, language impairment, and behavioral disorders.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	44.2 kDa
AA Sequence	MLRVRCLRGGSRGAEAVHYIGSRLGRTLGTWVQRTFQSTQAATASSRNSCAADDK ATEPLPKDCPVSSYN EWDPLEEVIVGRAENACVPPFTIEVKANTYEKYWPFYQKQG GHYFPKDHLKKAVAEIEEMCNILKTEGVT VRRPDIDWSLKYKTPDFESTGLYSAMP RDILIVVGNEIIEAPMAWRSRFFEYRAYRSIIKDYFHRGAKW TTAPKPTMADELYNQD YPIHSVEDRHKLA AQGKFVTTEFEPCFDAADFIRAGRDIFAQRSQVTNYLGIEW MRR HLAPDYRVHIISFKDPNPMHIDATFNIIGPGIVLSNPDRPCHQIDLFFKKAGWTIITPPTPI IPDDHP LWMSSKWLSMNVLMLEDEKRVMDANEVPIQKMFELGITTIKVNIRNANSL

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	GGGFHCWTCDVRRRGTLQS YLDTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Arginine and proline metabolism, Glycine, serine and threonine metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	GATM glycine amidinotransferase [Homo sapiens (human)]
Official Symbol	GATM
Synonyms	AT; AGAT; CCDS3; FRTS1
Gene ID	2628

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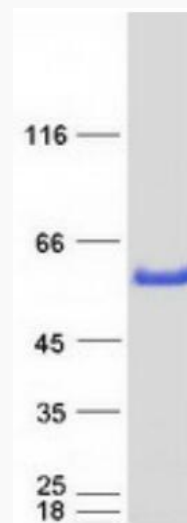


mRNA Refseq NM_001482.3

Protein Refseq NP_001473.1

MIM 602360

UniProt ID P50440



Coomassie blue staining of purified GATM protein.

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