

Recombinant Full Length Human GATM Protein, GST-tagged

Cat. No. GATM-5480HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GATM full-length ORF (NP_001473.1, 1 a.a. - 423 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	423 amino acids
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 mental retardation, language impairment, and behavioral disorders. [provided by RefSeq]
Molecular Mass	74.9 kDa
AA Sequence	MLRVRCLRGGSRGAEAVHYIGSRLGRTLGTGWVQRTFQSTQAATASSRNSCAADDK ATEPLPKDCPVSSYNEWDPLEEVIVGRAENACVPPFTIEVKANTYEKYWPFFYQKQG GHYFPKDHLKKAVAEIEEMCNILKTEGVTVRRPDPIDWSLKYKTPDFESTGLYSAMP RDILIVVGNEIIEAPMAWRSRFFEYRAYRSIIKDYFHRGAKWTTAPKPTMADELYNQD YPIHSVEDRHKLAAQGKFVTTEFEPCFDAADFIRAGRDIFAQRSQVTNYLGIEWMRR HLAPDYRVHIISFKDPNPMHIDATFNIIGPGIVLSNPDRPCHQIDLFFKKAGWTITPPTPI

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	IPDDHPLWMSSKWLSMNVLMLEKRVMDANEVPIQKMFELGITTIKVNIRNANSL GGGFHCWTCDVRRRGTLQSYLD
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	GATM glycine amidinotransferase (L-arginine:glycine amidinotransferase) [Homo sapiens]
Official Symbol	GATM
Synonyms	GATM; glycine amidinotransferase (L-arginine:glycine amidinotransferase); glycine amidinotransferase, mitochondrial; AGAT; transaminidase; L-arginine:glycine amidinotransferase; AT;
Gene ID	2628
mRNA Refseq	NM_001482
Protein Refseq	NP_001473

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MIM	602360
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UniProt ID	P50440
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