

Recombinant Human GATM Protein, GST-tagged

Cat. No. GATM-4761H **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	Wheat Germ
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	MLRVRCLRGGSRGAEAVHYIGSRLGRTLGTWVQRTFQSTQAATASSRNSCAADDK ATEPLPKDCPVSSYNEWDPLEEVIVGRAENACVPPFTIEVKANTYEKYWPFYQKQG GHYFPKDHLKKAVAEIEEMCNILKTEGVTVRRPDPIDWSLKYKTPDFESTGLYSAMP RDILIVVGNEIIEAPMAWRSRFFEYRAYRSIIKDYFHRGAKWTTAPKPTMADELYNQD YPIHSVEDRHKLA AQGKFVTTEFEPCFDAADFIRAGRDIFAQRSQVTNYLGIEWMRR HLAPDYRVHIISFKDPNPMHIDATFNIIGPGIVLSNPDRPCHQIDLFFKKAGWTIITPPTPI IPDDHPLWMSSKWLSMNVLMLDEKRMVDANEVPIQKMFELGITTIKVNIRNANSL

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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; transaminase; L-arginine:glycine amidinotransferase; AT;

Gene ID

[2628](#)

mRNA Refseq

[NM_001482](#)

Protein Refseq

[NP_001473](#)

MIM

[602360](#)

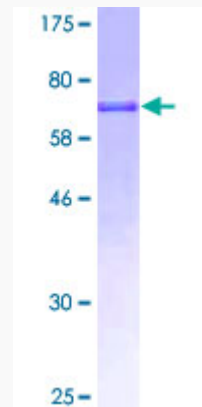
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UniProt ID

P50440

**Quality Control
Testing**

12.5% SDS-PAGE Stained with Coomassie Blue.

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