

Recombinant Human GATM protein, His-tagged

Cat. No. GATM-1925H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant GATM protein was fused to His-tag and expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	410
Description	GATM (Glycine amidinotransferase, mitochondrial) is 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. Creatine plays a vital role in energy metabolism in muscle tissues. It plays a role in embryonic and central nervous system development. Recombinant human GATM protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 200mM NaCl
Molecular Mass	46.9 kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMGSMSTQAATASSRNSCAADDKATEPLPKDCPVS SYNEWDPLEEVIVGRAENACVPPFTIEVKANTYEKYWPFYQKQGGHYFPKDHLKKA VAEIEEMCNILKTEGVTVRRPDPIDWSLKYPDFESTGLYSAMPRDILIVVGNEIIEA

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PMAWRSRFFEYRAYRSIIKDYFHRGAKWTTAPKPTMADELYNQDYPHISVEDRHKL
 AAQGKFVTTTEFEPCFDAADFIRAGRDIFAQRSQVTNYLGIEWMRRHLAPDYRVHIISF
 KDPNPMHIDATFNIIGPGIVLSNPDRPCHQIDLFKKAGWTIITPPTPIIPDDHPLWMSSK
 WLSMNVLMLDEKRVMVDANEVPIQKMFELGITTIKVNIERNANSLGGGFHCWTCDV
 RRRGTLQSYLD

Purity >90% by SDS-PAGE

Applications SDS-PAGE

Storage Can be stored at +2 centigrade to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name GATM

Official Symbol GATM

Synonyms AT; AGAT; CCDS3

Gene ID 2628

mRNA Refseq NM_001482.3

Protein Refseq NP_001473.1

MIM 602360

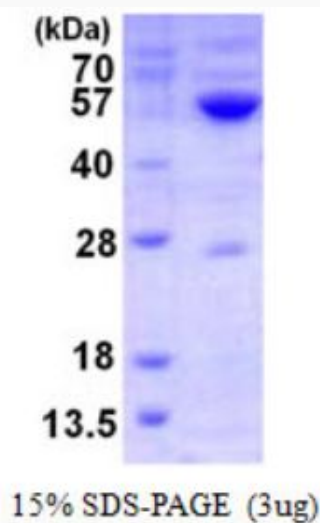
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UniProt ID P50440

SDS-PAGE of GATM-
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