

GATM recombinant protein

GATM, 38-423aa, Human, His tag, E Coli

CATALOG # AAA48722	HOST E Coli	APPLICATIONS SDS-Page
------------------------------	-----------------------	---------------------------------

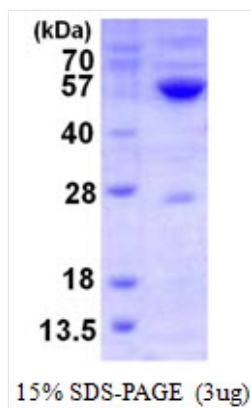
PRODUCT SYNONYMS

GATM; 38-423aa; Human; His tag; E Coli; glycine amidinotransferase mitochondrial; glycine amidinotransferase; mitochondrial; AGAT; AT; GATM recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 200mM NaCl
Concentration	1mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MGSMSTQAAT ASSRNSCAAD DKATEPLPKD CPVSSSYNEWD PLEEVIVGRA ENACVPPFTI EVKANTYEKY WPFYQKQGGH YFPKDHLKKA VAEIEEMCNI LKTEGTVRR PDPIDWSLKY KTPDFESTGL YSAMP RDILI VVGNEIIEAP MAWRSRFFEY RAYRSIIKDY FHRGAKWTTA PKPTMADELY NQDYPIHSVE DRHKLAAQ GK FVTTEFPCF DAADFIRAGR DIFAQRSQVT NYLGIEWMRR H LAPDYRVHI ISFKDPNPMH IDATFNII GP GIVLSNPDRP CHQIDLFKKA GWTIITPPTP IIPDDHPLWM SSKWLSMNV L MLDEKRMVD ANEVPIQKMF EKLGITTIKV NIRNANSLGG GFHCWTC DVR RRGTLQSYLD
Sequence Length	423
Applicable Applications for GATM recombinant protein	SDS-PAGE
Tag	His-tag
Domain	38-423aa
Preparation and Storage	Can be stored at 2 to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for GATM recombinant protein	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.
Product Categories/Family for GATM recombinant protein	Metabolism
References	Schulze A (2003). Mol. Cell. Biochem. 244 (1-2): 143-50.; Cullen M.E., Et al. (2006) Circulation 114:116-120;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503933
NCBI GeneID	2628
NCBI Accession #	NP_001473
NCBI GenBank Nucleotide #	NM_001482.2
UniProt Accession #	P50440; Q53EQ4; B4DH99; B4DPI3
Molecular Weight	46.9kDa (410aa), confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher)
NCBI Official Full Name	glycine amidinotransferase, mitochondrial isoform 1
NCBI Official Synonym Full Names	glycine amidinotransferase
NCBI Official Symbol	GATM
NCBI Official Synonym Symbols	AT; AGAT; CCDS3
NCBI Protein Information	glycine amidinotransferase, mitochondrial
UniProt Protein Name	Glycine amidinotransferase, mitochondrial
UniProt Gene Name	GATM
UniProt Synonym Gene Names	AGAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.