

Product datasheet for **AR50263PU-N**

Glycine amidinotransferase (38-423, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Glycine amidinotransferase (38-423, His-tag) human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMSQAAT ASSRNSCAAD DKATEPLPKD CPVSSYNEWD PLEEVIVGRA ENACVPPFTI EVKANTYEKY WPFYQKQGGH YFPKDHLKKA VAEIEEMCNI LKTEGVTVRR PDPIDWSLKY KTPDFESTGL YSAMPRDILI VVGNEIIEAP MAWRSRFFEY RAYRSIIKDY FHRGAKWTTA PKPTMADELY NQDYPIHSVE DRHKLAAQ GK FVTTEFEPCF DAADFIRAGR DIFAQRSQVT NYLGIEWMRR HLPDYRVHI ISFKDPNPMH IDATFNIIGP GIVLSNPDRP CHQIDLFKKA GWTIITPPTP IIPDDHPLWM SSKWLSMNVL MLDEKRMVD ANEVPIQKMF EKLGITTIKV NIRNANSLGG GFHCWTC DVR RRGTLQSYLD
Tag:	His-tag
Predicted MW:	46.9 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 2 mM DTT, 10% glycerol, 200 mM NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human GATM protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001307944
Locus ID:	2628
Cytogenetics:	15q21.1



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Synonyms: AGAT; AT; CCDS3; FRTS1

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Glycine, serine and threonine metabolism, Metabolic pathways