Recombinant Human Glycine amidinotransferase, mitochondrial (GATM)

Product Code	CSB-EP009284HU-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P50440
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	STQ AATASSRNSC AADDKATEPL PKDCPVSSYN EWDPLEEVIV GRAENACVPP FTIEVKANTY EKYWPFYQKQ GGHYFPKDHL KKAVAEIEEM CNILKTEGVT VRRPDPIDWS LKYKTPDFES TGLYSAMPRD ILIVVGNEII EAPMAWRSRF FEYRAYRSII KDYFHRGAKW TTAPKPTMAD ELYNQDYPIH SVEDRHKLAA QGKFVTTEFE PCFDAADFIR AGRDIFAQRS QVTNYLGIEW MRRHLAPDYR VHIISFKDPN PMHIDATFNI IGPGIVLSNP DRPCHQIDLF KKAGWTIITP PTPIIPDDHP LWMSSKWLSM NVLMLDEKRV MVDANEVPIQ KMFEKLGITT IKVNIRNANS LGGGFHCWTC DVRRRGTLQS YLD
Source	E.coli
Target Names	GATM
Protein Names	Recommended name: Glycine amidinotransferase, mitochondrial EC= 2.1.4.1 Alternative name(s): L-arginine:glycine amidinotransferase Transamidinase
Expression Region	38-423
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.