Recombinant Human glutamyl-tRNA(Gln) amidotransferase, subunit C, His-tagged

Cat. No. GATC-229H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GATC, 1-136aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-136 a.a.
Description	GATC allows the formation of correctly charged Gln-tRNA(Gln) through the transamidation of misacylated Glu-tRNA(Gln) in the mitochondria. The reaction takes place in the presence of glutamine and ATP through an activated gamma-phospho-Glu-tRNA(Gln). This protein is subunit of the heterotrimeric GatCAB amidotransferase (AdT) complex, composed of A (QRSL1), B (PET112) and C (GATC) subunits. Recombinant human GATC 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 0.15M NaCl, 30% glycerol, 1mM DTT
Molecular Mass	17.5 kDa (159aa), confirmed by MALDI-TOF(Molecular size on SDS-PAGE will appear higher)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMWSRLVW LGLRAPLGGR QGFTSKADPQ GSGRITAAVI EHLERLALVD FGSREAVARL EKAIAFADRL RAVDTDGVEP

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	MESVLEDRCL YLRSDNVVEG NCADELLQNS HRVVEEYFVA PPGNISLPKL DEQEPFPHS
Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	GATC?glutamyl-tRNA(Gln) amidotransferase, subunit C [?Homo sapiens(human)]
Official Symbol	GATC
Synonyms	GATC; 15E1.2; glutamyl-tRNA(Gln) amidotransferase, subunit C; glutamyl-tRNA(Gln) amidotransferase subunit C, mitochondrial; glu-AdT subunit C; glutamyl-tRNA(Gln) amidotransferase, subunit C homolog; NP_789788.1; EC 6.3.5.-
Gene ID	283459
mRNA Refseq	NM_176818
Protein Refseq	NP_789788
UniProt ID	O43716
Chromosome Location	12q24.31
Pathway	Aminoacyl-tRNA biosynthesis; mRNA processing

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Function	ATP binding; glutaminyl-tRNA synthase (glutamine-hydrolyzing) activity

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