

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	<p>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.</p>
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 SSSLVPRGSH MGSMWSRLVW LGLRAPLGGR QGFTSKADPQ GSGRITAAVI EHLERLALVD FGSREAVARL EKAIAFADRL RAVDTDGVEP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

MESVLEDRCL YLRSDNVVEG NCADELLQNS HRVVEEYFVA PPGNISLPKL
DEQEPPPHS

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Function

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

☎ Tel: 1-631-559-9269 1-516-512-3133

☎ Email: info@creative-biomart.com ☎ Fax: 1-631-938-8127

☎ 45-1 Ramsey Road, Shirley, NY 11967, USA