

Product information



GATC, 1-136aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2183

Full name: Glutamyl-tRNA(Gln) amidotransferase, subunit C homolog

NCBI Accession No.: NP_789788

Synonyms: 15E1.2

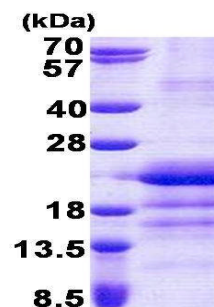
Description: GATC allows the formation of correctly charged Gln-tRNA(Gln) through the transamidation of misacylated Glu-tRNA(Gln) in the mitochondria. The reaction takes place in the presence of glutamine and ATP through an activated gamma-phospho-Glu-tRNA(Gln). This protein is subunit of the heterotrimeric 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 Weight: 17.5 kDa (159aa), confirmed by MALDI-TOF
(Molecular size on SDS-PAGE will appear higher)

Purity: > 85% by SDS - PAGE

Concentration: 0.25 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSMMWSRLVW LGLRAPLGGR QGFTSKADPQ GSGRITA AVI EHLERLALVD FGSREAVARL EKA IAFADRL
RAVDTDGV EP MESVLEDRCL YLRSDNVVEG NCADELLQNS HRVVEEYFVA PPGN I SLPKL DEQEPFPHS

General references:

Nagao A., *et al.* (2009) *Proc. Natl. Acad. Sci. U.S.A.* 106:16209-16214

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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