

**GATC, 1-136aa, Human, His tag, E.coli**

**Cat.NO.: TP02202**

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3th Edition

**Synonyms:**Glutamyl-tRNA(Gln) amidotransferase, subunit C homolog, 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)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSMWSRLVWLGLRAPLGGRQGFTSKADPQGSGRITAAVIEHLERLALVDFGSR  
EAVARLEKAI AFADRLRAVDTDGVEPMESVLEDRCLYLRS DN VVEGNCAD ELLQNSHRVVEEYFVAPPGNISLPKL  
DEQEPFPHS

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.