

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

Cat.NO.: TP02202

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
EAVARLEKAIAFADRLRAVDTDGVEPMESVLEDRCLYLRSDNVVEGNCADPELLQNSHRVVEEYFVAPPGNISLPKL
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.