

## 32-2349: GATC Recombinant Protein

**Alternative Name :** Glutamyl-TRNA(Gln) Amidotransferase Subunit C, Glu-AdT Subunit C, 15E1.2, Glutamyl-TRNA(Gln) Amidotransferase Subunit C Homolog (Bacterial), Glutamyl-TRNA(Gln) Amidotransferase Subunit C Mitochondrial, Glutamyl-TRNA(Gln) Amidotransferase Subunit C Ho

### Description

Source : Escherichia Coli. GATC Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 159 amino acids (1-136 a.a) and having a molecular mass of 17.5kDa (Molecular size on SDS-PAGE will appear higher). GATC is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Glutamyl-TRNA Amidotransferase, Subunit C also known as GATC allows the formation of properly charged Gln-tRNA(Gln) through the transamidation of misacylated Glu-tRNA(Gln) in the mitochondria. The reaction occurs in the attendance of glutamine and ATP through an activated gamma-phospho-Glu-tRNA(Gln). In addition, GATC is subunit of the heterotrimeric GatCAB amidotransferase (AdT) complex, composed of A (QRSL1), B (PET112) and C (GATC) subunits.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 85.0% as determined by SDS-PAGE.  
**Content :** GATC protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 30% glycerol and 1mM DTT.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHH SGLVPRGSH MGSWMSRLVW LGLRAPLGGR QGFTSKADPQ GSGRITAAVI  
EHLERLALVD FGSREAVARL EKAIAFADRL RAVDTDGVPEP MESVLEDRCL YLRSDNVVEG NCADELLQNS  
HRVVEEYFVA PPGNISLPKL DEQEPFPHS

