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### Recombinant human GATC protein

Catalog Number: ATGP2183

#### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-136aa

#### **UniProt No.**

043716

#### **NCBI Accession No.**

NP 789788

#### **Alternative Names**

Glutamyl-tRNA(Gln) amidotransferase subunit C homolog, Glutamyl-tRNA(Gln) amidotransferase, subunit C homolog, 15E1.2

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

17.5 kDa (159aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT

#### **Purity**

> 85% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

GATC allows the formation of correctly charged GIn-tRNA (GIn) through the transamidation of misacylated Glu-tRNA (GIn) in the mitochondria. The reaction takes place in the presence of glutamine and ATP through an activated gamma-phospho-Glu-tRNA (GIn). 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



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techniques.

#### **Amino acid Sequence**

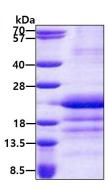
<MGSSHHHHHH SSGLVPRGSH MGS>MWSRLVW LGLRAPLGGR QGFTSKADPQ GSGRITAAVI EHLERLALVD FGSREAVARL EKAIAFADRL RAVDTDGVEP MESVLEDRCL YLRSDNVVEG NCADELLQNS HRVVEEYFVA PPGNISLPKL DEQEPFPHS

#### **General References**

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

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

