

Recombinant human GATC protein

Catalog Number: ATGP2183

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-136aa

UniProt No.

O43716

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 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

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techniques.

Amino acid Sequence

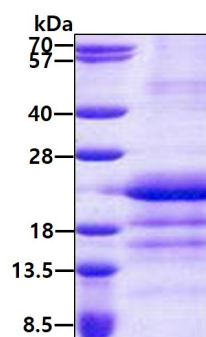
<MGSSHHHHHH SSGLVPRGSH MGS>MWSRLVW LGLRAPLGGR QGFTSKADPQ GSGRITA AVI EHLERLALVD
FGSREAVARL EKAIAFADRL RAVDTDGVEP MESVLEDRCL YLRSDNVVEG NCADELLQNS HRVVEEYFVA PPGNISLPKL
DEQEPFPHS

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.