
Product Data Sheet

Product Name: GATC Human
 Cat. No.: GP21661
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutamyl-TRNA(Gln) Amidotransferase Subunit C; Glu-AdTSubunit C; 15E1.2; Glutamyl-TRNA(Gln) Amidotransferase Subunit C Homolog(Bacterial); Glutamyl-TRNA(Gln) Amidotransferase Subunit C Mitochondrial; Glutamyl-TRNA(Gln)Amidotransferase Subunit C Homolog; EC 6.3.5; Protein 15E1.2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMWSRLVW LGLRAPLGGR QGFTSKADPQ GSGRITAAVI EHLERLALVDFGSREAVARL EKAIAFADRL RAVDTDGVEP MESVLEDRCL YLRSDNVVEG NCADELLQNS HRVVEEYFVAPPGNISLPKL DEQEPPHS		
Formulation	GATC protein solution (0.25mg/ml) containing 20mMTris-HCl buffer (pH 8.0), 0.15M NaCl, 30% glycerol and 1mM DTT.		

Introduction

Glutamyl-TRNAAmidotransferase, Subunit C also known as GATC allows the formation of properlycharged Gln-tRNA(Gln) through the transamidation of misacylated Glu-tRNA(Gln) inthe mitochondria. The reaction occurs in the attendance of glutamine and ATP throughan activated gamma-phospho-Glu-tRNA(Gln). In addition, GATC is subunit of theheterotrimeric GatCAB amidotransferase (AdT) complex, composed of A (QRSL1), B (PET112)and C (GATC) subunits.

Stability

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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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).

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