
Product Data Sheet

Product Name: CUTC Human
 Cat. No.: GP23278
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Copper homeostasis protein cutC homolog; CUTC; CGI-32; RP11-483F11.3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MKRQGASSER KRARIPSGKA GAANGFLMEV CVDSVESAVN AERGGADRIE LCSGLSEGGT TPSMGVLQVV KQSVQIPV FV MIRPRGGDFL YSDREIEVMK ADIRLAKLYG ADGLVFGALT EDGHIDKELC MSLMAICRPL PVTFHRAFDM VHDPMMALET LLTLGFERVL TSGCDSSALE GLPLIKRLIE QAKGRIVVMP GGGITDRNLQ RILEGSGATE FHCSARSTRD SGMKFRNSSV AMGASLSCSE YSLKVTDVTK VRTLNAIAKN ILV.		
Formulation	CUTC protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 5mM DTT, 10% glycerol and 200mM NaCl.		

Introduction

CUTC belongs to the Cut family and may be involved in efflux trafficking of cuprous ion. The Cut family is linked with the copper homeostasis and involved in several vital metabolisms, such as uptake, storage, delivery, and efflux of copper. Copper which is an essential heavy metal trace element has an imperative role in cell physiology.

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

CUTC Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 293 amino acids (1-273 a.a) and having a molecular mass of 31.5kDa. CUTC is fused to a 20 amino acid His-tag at N-terminus & purified by

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

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proprietary chromatographic techniques.

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