

Recombinant Human CUTC, His-tagged

Cat. No. CUTC-3629H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CUTC protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-273aa).
Species	Human
Source	Human
Description	CUTC is a member of the Cut family and is suggested to be involved in efflux trafficking of cuprous ion. The Cut family was associated with the copper homeostasis and involved in several important metabolisms, such as uptake, storage, delivery, and efflux of copper. Copper is an essential heavy metal trace element that plays important roles in cell physiology.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 10% glycerol, 200mM NaCl
Molecular Weight	31.5kDa (293a), confirmed by MALDI-TOF
Purity	> 95% by SDS - PAGE
Concentration	0.5mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MKRQGASSER KRARIPSGKA GAANGFLMEV CVDSVESAVN AERGGADRIE LCSGLSEGGT TPSMGVLQVV QQSVQIPVFV MIRPRGGDFL YSDREIEVMK ADIRLAKLYG ADGLVFGALT EDGHIDKELC

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MSLMAICRPL PVTFHRAFDM VHDPMAALET LLTLGFERVL TSGCDSSALE
 GLPLIKRLIE QAKGRIVVMP GGGITDRNLQ RILEGSGATE FHCSARSTRD
 SGMKFRNSSV AMGASLSCSE YSLKVTDVTK VRTLNAIAKN ILV

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name [CUTC cutC copper transporter homolog \(E. coli\) \[Homo sapiens \]](#)

Official Symbol [CUTC](#)

Synonyms [CUTC](#); [CGI-32](#); [RP11-483F11.3](#); [cutC copper transporter homolog \(E. coli\)](#); [copper homeostasis protein cutC homolog](#); [OTTHUMP00000020260](#); [OTTHUMP00000020261](#); [OTTHUMP00000020262](#)

Gene ID [51076](#)

mRNA Refseq [NM_015960](#)

Protein Refseq [NP_057044](#)

MIM [610101](#)

UniProt ID [Q9NTM9](#)

Chromosome Location [10q24.2](#)

Function [copper ion binding](#); [metal ion binding](#)

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