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ICT1 Human

Immature Colon Carcinoma Transcript 1 Human Recombinant
RCP1106

Product Overview

Name	ICT1 Human

Description

Immature Colon Carcinoma Transcript 1 Human Recombinant

Accession (Primary)	Q14197

Synonyms

DS-1, DS1, Peptidyl-tRNA hydrolase ICT1 mitochondrial, Digestion substraction 1, Immature colon carcinoma transcript 1 protein, ICT1.

Introduction

Immature Colon Carcinoma Transcript 1 (ICT1) functions as a codon-independent translation release factor that has lost all stop codon specificity and leads the termination of translation in mitochondrion in case of abortive elongation. The mature colon epithelium has 3 differentiated cell types which arise from a multipotent stem cell. ICT1 is involved in the hydrolysis of peptidyl-tRNAs which have been prematurely terminated and consequently in the recycling of stalled mitochondrial ribosomes. Digression from the normal maturation pathway by neoplastic transformation is assumed to originate in stem cells or their early descendants.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

ICT1 protein solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 30% glycerol, 1mM DTT.

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.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS LHKQKDG TEFKSIYSLD KLYPESQGSD TAWRVPNGAK QADSDIPLDR LTISYCRSSG PGGQNVNKVN SKAEVRFHLA TAEWIAEPVR QKIAITHKNK INRLGELILT SESSRYQFRN

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LADCLQKIRD MITEASQTPK EPTKEDVKLH RIRIENMNRE RLRQKRIHSA VKTSRRVDMD.

Precautions

ICT1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q14197)