
Product Data Sheet

Product Name: ICT1 Human
 Cat. No.: GP23689
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DS-1; DS1; Peptidyl-tRNA hydrolase ICT1 mitochondrial; Digestion substraction 1; Immature colon carcinoma transcript 1 protein; ICT1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSLHKQKDG TEFKSIYSLD KLYPESQGSD TAWRVPNGAK QADSDIPLDR LTISYCRSSG PGGQNVNKNV SKAEVRFHLA TAEWIAEPVR QKIAITHKNK INRLGELILT SESSRYQFRN LADCLQKIRD MITEASQTPK EPTKEDVKLH RIRIENMNRE RLRQKRIHSA VKTSRRVDMD.		
Formulation	ICT1 protein solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH 8.5), 0.2M NaCl, 30% glycerol, 1mM DTT.		

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.

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

ICT1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

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

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chain containing 200 amino acids (30-206 a.a) and having a molecular mass of 22.8kDa. ICT1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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