

## 32-4003: ICT1 Recombinant Protein

**Alternative Name :** DS-1,DS1,Peptidyl-tRNA hydrolase ICT1 mitochondrial,Digestion subtraction 1,Immature colon carcinoma transcript 1 protein,ICT1.

### Description

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

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** ICT1 protein solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH 8.5), 0.2M NaCl, 30% glycerol, 1mM DTT.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MGSLHKQKDG TEFKSIYSLD KLYPESQGSD TAWRVPNGAK  
QADSDIPLDR LTISYCRSSG PGGQNVNKNV SKAEVRFHLA TAEWIAEPVR QKIAITHKNK INRLGELILT  
SESSRYQFRN LADCLQKIRD MITEASQTPK EPTKEDVKLH RIRIENMNRE RLRQKRIHSA VKTSRRVDMD.

