

Recombinant Human immature colon carcinoma transcript 1, His-tagged

Cat. No. ICT1-395H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ICT1, 30-206aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	30-206 a.a.
Description	Peptidyl-tRNA hydrolase ICT1 acts as a codon-independent translation release factor that has lost all stop codon specificity and directs the termination of translation in mitochondrion, possibly in case of abortive elongation. It may be involved in the hydrolysis of peptidyl-tRNAs that have been prematurely terminated and thus in the recycling of stalled mitochondrial ribosomes. Recombinant human ICT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol, 1mM DTT
Molecular Mass	22.8 kDa (200aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSLHKQKDG TEFKSIYSLD KLYPESQGSD TAWRVPNGAK QADSDIPLDR LTISYCRSSG PGGQNVNKNV SKAEVRFHLA TAEWIAEPVR QKIAITHKNK INRLGELILT SESSRYQFRN LADCLQKIRD

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MITEASQTPK EPTKEDVKLH RIRIENMNRE RLRQKRIHSA VKTSRRVDMD

Purity >90% by SDS - PAGE

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

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [ICT1 immature colon carcinoma transcript 1 \[Homo sapiens \]](#)

Official Symbol ICT1

Synonyms ICT1; immature colon carcinoma transcript 1; peptidyl-tRNA hydrolase ICT1, mitochondrial; DS 1; digestion subtraction 1; immature colon carcinoma transcript 1 protein; DS1; DS-1;

Gene ID [3396](#)

mRNA Refseq [NM_001545](#)

Protein Refseq [NP_001536](#)

MIM [603000](#)

UniProt ID [Q14197](#)

Chromosome Location 17q25

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Function

aminoacyl-tRNA hydrolase activity; hydrolase activity; translation release factor activity, codon nonspecific;

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