

# Recombinant human ICT1 protein

Catalog Number: ATGP1834

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

30-206aa

### UniProt No.

Q14197

### NCBI Accession No.

NP\_001536

### Alternative Names

Peptidyl-tRNA hydrolase ICT1 mitochondrial, Peptidyl-tRNA hydrolase ICT1, mitochondrial, DS-1, DS1

## PRODUCT SPECIFICATION

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### Molecular Weight

22.8 kDa (200aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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.

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### Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSLHKQKDG TEFKSIYSLD KLYPESQGS D TAWRVPNGAK QADSDIPLDR LTISYCRSSG  
PGGQNVNKNV SKAEVRFHLA TAEWIAEPVR QKIAITHKNK INRLGELILT SESSRYQFRN LADCLQKIRD MITEASQTPK  
EPTKEDVKLH RIRIENMNRE RLRQKRIHSA VKTSRRVDM D

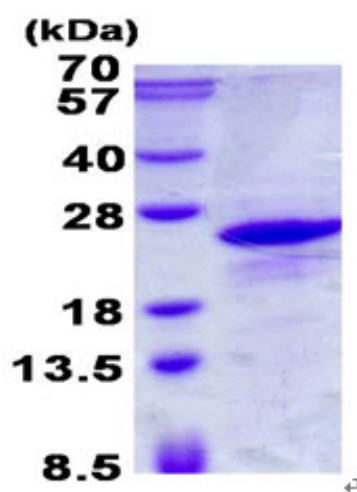
### General References

Richter R., et al. (2010) EMBO J. 29:1116-1125  
van Belzen N., et al. (1995) Eur. J. Biochem. 234:843-848

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)