

ICT1, 30-206aa, Human, His tag, E.coli

Cat.NO.: TP02550

3th Edition

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

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.

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

Molecular Weight:22.8 kDa (200aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSLHKQKDGTEFKSIYSLDKLYPESQGSdTAWRVPNGAKQADSDIPLDRLTISY
CRSSGPGGQNVNKNVNSKAEVRFHLATAEWIAEPVRQKIAITHKNKINRLGELILTSESSRYQFRNLADCLQKIRDMIT
EASQTPKEPTKEDVKLHRIRIENMNRERLRQKRIHSAVKTSRRVDMD

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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