

## Product datasheet for PH304448

### ICT1 (MRPL58) (NM\_001545) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ICT1 MS Standard C13 and N15-labeled recombinant protein (NP_001536)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204448
Predicted MW:	23.6 kDa
Protein Sequence:	>RC204448 protein sequence Red=Cloning site Green=Tags(s)  MAATRCLRWGLSRAGVWLLPPPAPRCRRALHKQKDGTEFKSIYSLDKLYPESQGSDTAWRVPNGAKQADS DIPLDRLTISYCRSSGGQNVNKNVNSKAEVRFHLATAEWIAEPVRQKIAITHKNKINRLGELILTSESS RYQFRNLADCLQKIRDMITEASQTPKEPTKEDVKLHRIRIENMNRERLRQKRIHSAVKTSRRVDM  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001536</a>
RefSeq Size:	888
RefSeq ORF:	618
Synonyms:	DS-1; DS1; ICT1; MRP-L58
Locus ID:	3396
UniProt ID:	<a href="#">Q14197</a>

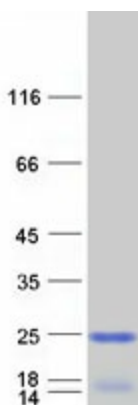


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Cytogenetics: 17q25.1

**Summary:** The protein encoded by this gene is a peptidyl-tRNA hydrolase and a vital component of the large mitochondrial ribosome. The encoded protein serves as a ribosome release factor for this ribosome, which translates mitochondrial genes. This protein may be responsible for degrading prematurely-terminated polypeptides and for reusing stalled ribosomes. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]

### Product images:



Coomassie blue staining of purified MRPL58 protein (Cat# [TP304448]). The protein was produced from HEK293T cells transfected with MRPL58 cDNA clone (Cat# [RC204448]) using MegaTran 2.0 (Cat# [TT210002]).