

Recombinant Human MRP63 Protein, His-tagged

Cat. No. MRP63-2455H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MRP63 Protein (Met1-Ser102) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Ser102
Description	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a protein which belongs to an undetermined ribosomal subunit and which seems to be specific to animal mitoribosomes. Pseudogenes corresponding to this gene are found on chromosomes 1p, 1q, 3p, 5q, 8q, 14q, and Y.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16 kDa Accurate Molecular Mass: 18 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	MRP63 mitochondrial ribosomal protein 63 [Homo sapiens (human)]
Official Symbol	MRP63
Synonyms	MRPL57; mitochondrial ribosomal protein L57; MRP63; bMRP63; ribosomal protein 63, mitochondrial; hMRP63; mitochondrial large ribosomal subunit protein mL63; mitochondrial ribosomal protein 63; mitochondrial ribosomal protein bMRP63
Gene ID	78988
mRNA Refseq	NM_024026

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Protein Refseq	NP_076931
MIM	611997
UniProt ID	Q9BQC6

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