Recombinant Human MRPL48, His-tagged

Cat. No. MRPL48-147H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human 39S Ribosomal Protein L48 Mitochondrial/MRPL48 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Ser29-Lys212) of Human MRPL48 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	29-212 a.a.
Description	39S Ribosomal Protein L48 Mitochondrial(MRPL48) localizes to the mitochondrion. Mitochondrial ribosomes 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, Human MRPL48 consists a 28 amino acid transit peptide and a 184 amino acid mature chain. MRPL48 can interact with OXA1L.
AA Sequence	SGEKPIYSVGGILLSISRPYKTKPTHGIGKYKHLIKAEEPKKKKGKVEVRAINLGTDYE YGVLNI HLTAYDMTLAESYAQYVHNLCNSLSIKVEESYAMPTKTIEVLQLQDQGSKM LLDSVLTTHERVVQ ISGLSATFAEIFLEIIQSSLPEGVRLSVKEHTEEDFKGRFKARPE LEELLAKLKVDHHHHHH

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Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

GENE INFORMATION

Gene Name	MRPL48 mitochondrial ribosomal protein L48 [Homo sapiens]
Official Symbol	MRPL48
Synonyms	MRPL48; mitochondrial ribosomal protein L48; 39S ribosomal protein L48, mitochondrial; CGI 118; L48MT; CGI-118; HSPC290; MRP-L48; FLJ17047; FLJ99260; MGC13323;
Gene ID	51642
mRNA Refseq	NM_016055
Protein Refseq	NP_057139
MIM	611853
UniProt ID	Q96GC5
Chromosome Location	11q13.4
Function	protein binding; structural constituent of ribosome;

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