

Recombinant Human MRPL3 Protein, GST-tagged

Cat. No. MRPL3-5573H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPL3 full-length ORF (NP_009139.1, 1 a.a. - 348 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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 39S subunit protein that belongs to the L3P ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome 13q. [provided by RefSeq
Molecular Mass	65 kDa
AA Sequence	MPGWRLLTQVGAQVLGRLGDGLGAALGPGNRTHIWL FVRGLHGKSGTWWDEHLS EENVPFIKQLVSDDEKAQLASKLCPLKDEPWPIHPWEPGSFRVGLIALKLGMMPLWT KDGQKHVVTLLQVQDCHVLKYTSKENCNGKMATLSVGGKTVSRFRKATSILEFYRE

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LGLPPKQTVKIFNITDNAAIKPGTPLYAAHFRPGQYVDVTAKTIGKGFQGVMKRWGF
 KGQPATHGQTKTHRRPGAVATGDIGRVWPGTKMPGKMGNIYRTEYGLKVWRINTK
 HNIIYVNGSVPGHKNCLVKVKDSKLPAYKDLGKNLPFPTYFPDGDDEEELPEDLYDEN
 VCQPGAPSITFA

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name MRPL3 mitochondrial ribosomal protein L3 [Homo sapiens]

Official Symbol MRPL3

Synonyms MRPL3; mitochondrial ribosomal protein L3; RPML3; 39S ribosomal protein L3, mitochondrial; MRL3; L3mt; MRP-L3; mitochondrial 60S ribosomal protein L3; COXPD9;

Gene ID 11222

mRNA Refseq NM_007208

Protein Refseq NP_009139

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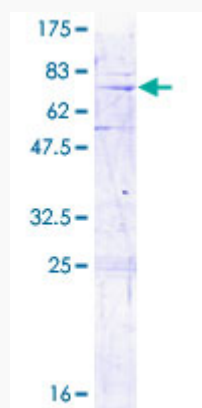
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MIM 607118

UniProt ID P09001

Quality Control
Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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