Recombinant Full Length Human MRPL50 Protein, GST-tagged

Cat. No. MRPL50-6440HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPL50 full-length ORF (NP_061924.1, 1 a.a. - 158 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	158 amino acids
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 putative 39S subunit protein and belongs to the L47P ribosomal protein family. Pseudogenes corresponding to this gene are found on chromosomes 2p, 2q, 5p, and 10q. [provided by RefSeq
Molecular Mass	44.7 kDa
AA Sequence	MAARSVSGITRRVFMWTVSGTPCREFWSRFRKEKEPVVVETVEEKKEPILVCPPLR SRAYTPPEDLQSRLESYVKEVFGSSLPSNWQDISLEDSRLKFNLLAHLADDLGHVVP

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	NSRLHQMCRVRDVLDFYNVPIQDRSKFDELSASNLPPNLKITWSY
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	MRPL50 mitochondrial ribosomal protein L50 [Homo sapiens]
Official Symbol	MRPL50
Synonyms	MRPL50; mitochondrial ribosomal protein L50; 39S ribosomal protein L50, mitochondrial; FLJ20493; mitochondrial 39S ribosomal protein L50; MRP L50; L50mt; MRP-L50; FLJ21990;
Gene ID	54534
mRNA Refseq	NM_019051
Protein Refseq	NP_061924
MIM	611854

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UniProt ID	Q8N5N7

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