

Recombinant Human MRPS31 Protein, His-tagged

Cat. No. MRPS31-1936H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human MRPS31 protein, fused to His-tagged at N-terminus, was expressed in E. coli
Species	Human
Source	E.coli
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. The 28S subunit of the mammalian mitoribosome may play a crucial and characteristic role in translation initiation. This gene encodes a 28S subunit protein that has also been associated with type 1 diabetes; however, its relationship to the etiology of this disease remains to be clarified. Pseudogenes corresponding to this gene have been found on chromosomes 3 and 13. [provided by RefSeq, Jul 2008].
Form	25 mM Tris, pH 8.0, 150 mM NaCl, 10% glycerol, 1% Sarkosyl.
Molecular Mass	45.1 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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Concentration	>50 ug/mL as determined by microplate BCA method
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GENE INFORMATION

Gene Name	MRPS31 mitochondrial ribosomal protein S31 [Homo sapiens]
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Official Symbol	MRPS31
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Synonyms	IMOGN38; MRP-S31; S31mt
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Gene ID	10240
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mRNA Refseq	NM_005830
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Protein Refseq	NP_005821
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MIM	611992
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UniProt ID	Q92665
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