

Recombinant Human MRPS10, His-tagged

Cat. No. MRPS10-28171TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-201 of Human MRPS10 with an N terminal His tag; Predicted MWt 24 kDa;
Species	Human
Source	E.coli
ProteinLength	1-201 a.a.
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 28S subunit protein that belongs to the ribosomal protein S10P family. Pseudogenes corresponding to this gene are found on chromosomes 1q, 3p, and 9p.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 134 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MAARTAFGAVCRRLWQGLGNFSVNTSKGNTAKNGGLLLST NMKWVQFSNLHVDV PKDLTKPVVTISDEPDILYKRLSV LVKGHDKAVLDSYEFYFAVLA AKELGISIKVHEPPR KIE RFTLLQSVHIYKKHRVQYEMRTLRYCLELEHLTGSTAD VYLEYIQRNLPEGVAM EVTKTQLEQLPEHIKEPIWETLSE EKEESKS
Full Length	Full L.
GENE INFORMATION	
Gene Name	MRPS10 mitochondrial ribosomal protein S10 [Homo sapiens]
Official Symbol	MRPS10
Synonyms	MRPS10; mitochondrial ribosomal protein S10; 28S ribosomal protein S10, mitochondrial; FLJ10567;
Gene ID	55173
mRNA Refseq	NM_018141
Protein Refseq	NP_060611
MIM	611976
Uniprot ID	P82664

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Chromosome Location	6p21.1
Function	molecular_function; structural constituent of ribosome;