

Recombinant Human MRPS17 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MRPS17-2601H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MRPS17 MS Standard C13 and N15-labeled recombinant protein (NP_057053) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 S17P family. The encoded protein is moderately conserved between human mitochondrial and prokaryotic ribosomal proteins. Pseudogenes corresponding to this gene are found on chromosomes 1p, 3p, 6q, 14p, 18q, and Xq.
Molecular Mass	14.5 kDa
AA Sequence	MSVVRSSVHARWIVGKVGITKMQKTAKVRVTRLVLDPYLLKYFNKRKTYFAHDALQ

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QCTVGDIVLLRALPVPRAKHVKHELAEIVFKVGKVIDPVTGKPCAGTTYLESPLSSET
TQLSKNLEELNISSAQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	MRPS17 mitochondrial ribosomal protein S17 [Homo sapiens (human)]
Official Symbol	MRPS17
Synonyms	MRPS17; mitochondrial ribosomal protein S17; 28S ribosomal protein S17, mitochondrial; 28S ribosomal protein S17; mitochondrial; HSPC011; MRP S17; RPMS17; S17mt; MRP-S17;
Gene ID	51373
mRNA Refseq	NM_015969
Protein Refseq	NP_057053
MIM	611980

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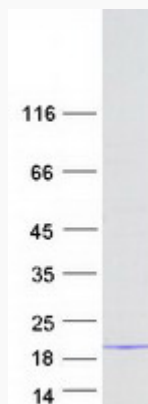
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UniProt ID

Q9Y2R5

SDS-PAGE

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