

Recombinant Human mitochondrial ribosomal protein L28, His-tagged

Cat. No. MRPL28-363H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MRPL28, 56-256aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	56-256 a.a.
Description	MRPL28, also as known as 39S ribosomal protein L28, mitochondrial, is a mitochondrial protein that belongs to the ribosomal protein L28P family. 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. MRPL28 potentially represents an important therapeutic reagent for HLA-A24 (A24) patients as this antigen is recognized by tumor-infiltrating lymphocyte (TIL) 1290, which targets the A24 serotype. This protein is found in a variety of normal tissues including spleen, testis, thymus, liver, kidney, brain, adrenal, lung and retinal tissue. Recombinant human MRPL28 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.5) containing 0.1M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	25.8kDa (222aa) confirmed by MALDI-TOF

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MNGQRERVED VPIPIYFPPE SQRGLWGEG WILGQIYANN DKLSKRLKKV WKPQLFEREF YSEILDKKFT VVTMRTLTL IDEAYGLDFY ILKTPKEDLC SKFGMDLKRK MLLRLARQDP QLHPEDPERR AAIYDKYKEF AIPEEEEAEWV GLTLEEAIK QRLLEEKDPV PLFKIYVAEL IQQLQQQALS EPAVVQKRAS GQ
Purity	>95% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	MRPL28 mitochondrial ribosomal protein L28 [Homo sapiens]
Official Symbol	MRPL28
Synonyms	MRPL28; mitochondrial ribosomal protein L28; MAAT1, melanoma associated antigen recognised by cytotoxic T lymphocytes; 39S ribosomal protein L28, mitochondrial; p15; L28mt; MRP-L28; melanoma antigen p15; melanoma-associated antigen recognized by T lymphocytes; melanoma-associated antigen recognized by T-lymphocytes; melanoma-associated antigen recognised by cytotoxic T lymphocytes; MAAT1; MGC8499;
Gene ID	10573
mRNA Refseq	NM_006428
Protein Refseq	NP_006419

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MIM	604853
UniProt ID	Q13084
Chromosome Location	16p13.12
Function	protein binding; structural constituent of ribosome;

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