

# Recombinant human MRPL28 protein

Catalog Number: ATGP1802

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

56-256aa

**UniProt No.**

Q13084

**NCBI Accession No.**

NP\_006419

**Alternative Names**

39S ribosomal protein L28 mitochondrial, 39S ribosomal protein L28, mitochondrial, MAAT1, p15

## PRODUCT SPECIFICATION

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**Molecular Weight**

25.8 kDa (222aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 0.1M NaCl, 10% glycerol, 1mM DTT

**Purity**

&gt; 95% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**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,

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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.

## Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MNGQRERVED VPIPIYFPPE SQRGLWGEG WILGQIYANN DKLSKRLKKV WKPQLFEREF  
YSEILDKKFT VTVTMRTL DL IDEAYGLDFY ILKTPKEDLC SKFGMDLKR G MLLRLARQDP QLHPEDPERR AAIYDKYKEF  
AIPEEEEAEWV GLTLEEAIEK QRLLEEKDPV PLFKIYVAEL IQQLQQALS EPAVVQKRAS GQ

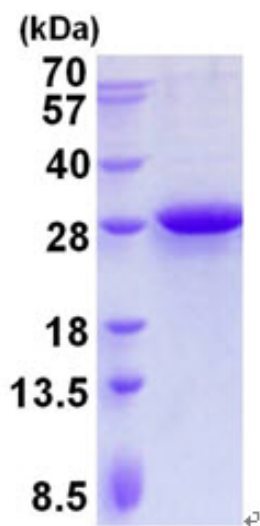
## General References

Koc EC, et al. (2001) J Biol Chem 276 (47): 43958-69.

Kawakami, Y., et al. (2000) J.Immunother. 23: 17-27.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)