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Recombinant human MRPL28 protein

Catalog Number: ATGP1802

PRODUCT INFORMATION

Expression system

E.coli

Domain

56-256aa

UniProt No.

013084

NCBI Accession No.

NP 006419

Alternative Names

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

PRODUCT SPECIFICATION

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

> 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

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.

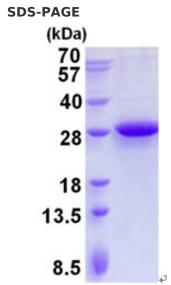
Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MNGQRERVED VPIPIYFPPE SQRGLWGGEG WILGQIYANN DKLSKRLKKV WKPQLFEREF YSEILDKKFT VTVTMRTLDL IDEAYGLDFY ILKTPKEDLC SKFGMDLKRG MLLRLARQDP QLHPEDPERR AAIYDKYKEF AIPEEEAEWV GLTLEEAIEK QRLLEEKDPV PLFKIYVAEL IQQLQQQALS 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



15% SDS-PAGE (3ug)

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