

Recombinant human MRPS23 protein

Catalog Number: ATGP2861

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-190aa

UniProt No.

Q9Y3D9

NCBI Accession No.

NP_057154

Alternative Names

28S ribosomal protein S23 mitochondrial, 28S ribosomal protein S23, mitochondrial, CGI-138, HSPC329, MRP-S23

PRODUCT SPECIFICATION

Molecular Weight

24.2 kDa (213aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol,

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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

Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes 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. MRPS23 encodes

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a 28S subunit protein. Recombinant human MRPS23 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MAGSRLE TVGSIFSRT R DLVRAGVLKE KPLWFDVYDA FPPLREPVFQ
RPRVRYGKAK APIQDIWYHE DRIRAKFYVS YGSGQRAFDL FNP NFKSTCQ RFVEKYTELQ KLGETDEEKL FVETGKALLA
EGVILRRVGE ARTQHGGSHV SRKSEHLSVR PQTALEENET QKEVPQDQHL EAPADQSKGL LPP

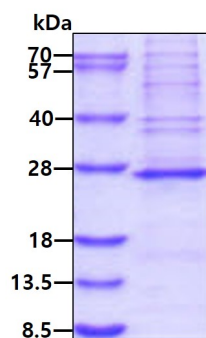
General References

Lai C.-H., et al (2000). Genome Res. 10:703-713

Kenmochi N., et al (2001). Genomics 77:65-70

DATA

SDS-PAGE



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