Recombinant human MRPS28 protein

Catalog Number: ATGP2936

PRODUCT INFORMATION

Expression system
E.coli

Domain
72-187aa

UniProt No.
Q9Y2Q9

NCBI Accession No.
NP_054737

Alternative Names
28S ribosomal protein S28 mitochondrial, 28S ribosomal protein S28, mitochondrial, HSPC007, MRP-S28, MRP-S35, MRPS35

PRODUCT SPECIFICATION

Molecular Weight
15.5 kDa (193aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid In. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

Purity
> 90% 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
Mammalian mitochondrial ribosomal proteins 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

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biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein that has been called mitochondrial ribosomal protein S35 in the literature. Recombinant human MRPS28 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

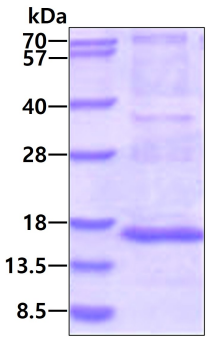
<MGSSHHHHHH SSGLVPRGSH MGS>GSPKNVE SFASMLRHSP LTQMGPAKDK LVIGRIFHIV ENDLYIDFGG KFHCVCRRPE VDGEKYQKGT RVRLRLLDLE LTSRFLGATT DTTVLEANAV LLGIQESKDS RSKEEHHEK

General References

Zhang Q.-H., et al. (2000) Genome Res. 10:1546-1560.
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.