

Recombinant human MRPL48 protein

Catalog Number: ATGP2839

PRODUCT INFORMATION

Expression system

E.coli

Domain

29-212aa

UniProt No.

Q96GC5

NCBI Accession No.

NP_057139

Alternative Names

Mitochondrial ribosomal protein L48, CGI-118, HSPC290, L48MT, MRP-L48

PRODUCT SPECIFICATION

Molecular Weight

23.1 kDa (207aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) 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 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 biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S

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subunit protein. A pseudogene corresponding to this gene is found on chromosome 6p. Recombinant human MRPL48 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

MGSSHHHHHHH SGLVPRGSH MGSSGEKPIY SVGGILLSIS RPYKTPTHG IGKYKHLIKA EEPKKKKGKV EVRAINLGTD
YEYGVLNHIL TAYDMTLAES YAQYVHNLN SLSIKVEESY AMPTKTIEVL QLQDQGSKML LDSVLTTHER VVQISGLSAT
FAEIFLEIIQ SSLPEGVRLS VKEHTEEDFK GRFKARPELE ELLAKLK

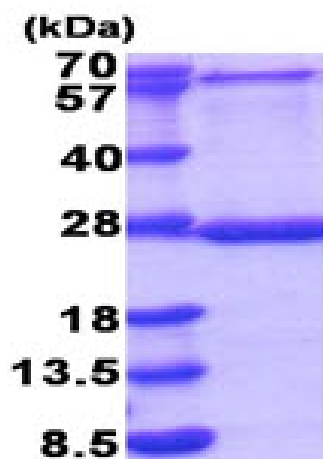
General References

Burkard T.R., et al. (2011) BMC Syst. Biol. 5:17-17

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

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)