Recombinant human MRRF protein

Catalog Number: ATGP1826

PRODUCT INFORMATION

Expression system
E.coli

Domain
56-262aa

UniProt No.
Q96E11

NCBI Accession No.
NP_620132

Alternative Names
Ribosome-recycling factor mitochondrial isoform 1, Ribosome-recycling factor, mitochondrial isoform 1, MRFF, MTRRF, RRF

PRODUCT SPECIFICATION

Molecular Weight
25.1 kDa (228aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol, 2mM 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
MRRF binds to the large ribosomal subunit in the cleft that contains the peptidyl transferase center. This protein is responsible for the release of ribosome from messenger RNA at the termination of protein biosynthesis. Also, it may increase the efficiency of translation by recycling ribosome from one round of translation to another. Recombinant human MRRF protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

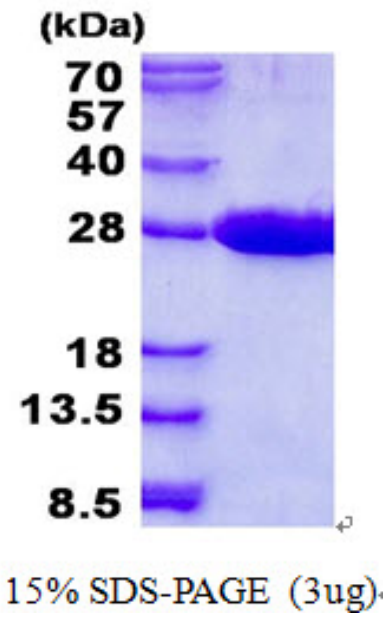
MGSSHHHHHH SSGLVPRGSH MATKKAKAKG KGQSQTRVNI NAALVEDIIN LEEVNEEMKS VIEALKDNFN KTLNIRTSPG SLDKIAVVTA DGKLALNQIS QISMKSPQLI LVNMASFPEC TAAAIKAIRE SGMNLNPEVE GTLIRVPIPQ VTREHREMLV KLAKQNTNKA KDSLRKVRTN SMNKLKKSKD TVSEDTIRLI EKQISQMADD TVAELDRHLA VKTKELLG

General References

Hirokawa G., et al. (2008) Nucleic Acids Res. 36(21):6676-87
Pai RD., et al. (2008 J Mol Biol. 376(5):1334-47.

DATA

SDS-PAGE



15% SDS-PAGE (3ug).

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