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### Recombinant human MRPS2 protein

Catalog Number: ATGP2301

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

1-296aa

#### **UniProt No.**

O9Y399

#### **NCBI Accession No.**

NP 057118

#### **Alternative Names**

Mitochondrial ribosomal protein S2, CGI-91, MRP-S2, S2mt

#### PRODUCT SPECIFICATION

#### **Molecular Weight**

35.6 kDa (319aa)

#### 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

#### **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 (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. MRPS2 is a 28S subunit protein that belongs to the ribosomal protein S2 family. Recombinant human MRPS2 protein, fused to His-tag at N-terminus, was expressed in E. coli.



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#### **Amino acid Sequence**

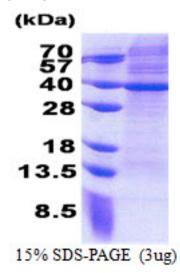
MGSSHHHHHH SSGLVPRGSH MGSMATSSAA LPRILGAGAR APSRWLGFLG KATPRPARPS RRTLGSATAL MIRESEDSTD FNDKILNEPL KHSDFFNVKE LFSVRSLFDA RVHLGHKAGC RHRFMEPYIF GSRLDHDIID LEQTATHLQL ALNFTAHMAY RKGIILFISR NRQFSYLIEN MARDCGEYAH TRYFRGGMLT NARLLFGPTV RLPDLIIFLH TLNNIFEPHV AVRDAAKMNI PTVGIVDTNC NPCLITYPVP GNDDSPLAVH LYCRLFQTAI TRAKEKRQQV EALYRLQGQK EPGDQGPAHP PGADMSHSL

#### **General References**

Suzuki T., et al (2001). J. Biol. Chem. 276:33181-33195 Koc E.C., et al (2001). J. Biol. Chem. 276:19363-19374

### **DATA**

#### **SDS-PAGE**



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

