

MRPS2, 1-296aa, Human, His tag, E.coli

Cat.NO.: TP03026

3th Edition

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

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.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.

Molecular Weight:35.6 kDa (319aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMATSSAALPRILGAGARAPSRWLGFLGKATPRPARPSRRTLGSATALMIRE
EDSTDFNDKILNEPLKHSDFFNVKELFSVRS�FDARVHLGHKAGCRHRFMPEYIFGSRLDHDIIIDLEQTATHLQLALN
FTAHMAYRKGILFISRNRQFSYLIENMARDCEYAHTRYFRGGMLTNARLLFGPTVRLPDLIIFLHTLNNIFEPHVAV
RDAAKMNIPTVGIVDTNCNPCLITYPVPGNDDSP LAVHLYCRLFQTAITRAKEKRQQVEALYRLQGQKEPGDQGPA
HPPGADMSHSL

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.