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## Product Data Sheet

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Product Name: MRPS2 Human  
 Cat. No.: GP23958  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Mitochondrial ribosomal protein S2; CGI-91; MRP-S2; S2mt; 28S ribosomal protein S2; mitochondrial; MRPS2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMATSSAA LPRILGAGAR APSRWLGFLG KATPRPARPS RRTLGSATAL MIRESEDSTD FNDKILNEPL KHSDFFNVKE LFSVRSLFDA RVHLGHKAGC RHRFMOPYIF GSRLDHDIID LEQTATHLQL ALNFTAHMAY RKGILFISR NRQFSYLIEN MARDCGEYAH TRYFRGGMLT NARLLFGPTV RLPDLIIFLH TLNNIFEPHV AVRDAAKMNI PTVGIVDTNC NPCLITYPVP GNDDSPHAVH LYCRLFQTAI TRAKEKRQQV EALYRLQGQK EPGDQGPAHP PGADMSHSL.		
Formulation	The MRPS2 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.		

### Introduction

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 and have about 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Mitochondrial Ribosomal Protein S2 (MRPS2) is a 28S subunit protein which is a part of the ribosomal protein S2 family and comprises a 12S rRNA and about 30 distinct proteins.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

MRPS2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 319 amino acids (1-296) and having a molecular mass of 35.6 kDa. MRPS2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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