

---

## Product Data Sheet

---

Product Name: MRPS23 Human

Cat. No.: GP23959

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Mitochondrial Ribosomal Protein S23; MRP-S23; S23mt; 28S Ribosomal Protein S23; Mitochondrial; CGI-138; HSPC329; MRPS23.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAGSRLE TVGSIFSRTR DLVRAGVLKE KPLWFDVYDA FPPLREPVFQ RPRVRYGKAK APIQDIWYHE DRIRAKFYSV YGSQRAFDFL FNPNFKSTCQ RFVEKYTELQ KLGETDEEKL FVETGKALLA EGVILRRVGE ARTQHGGSHV SRKSEHLSVR PQTALEENET QKEVPQDQHL EAPADQSKGL LPP.		
Formulation	MRPS23 protein solution (1mg/ml) containing Phosphate buffer saline (pH 7.4) and 10% glycerol.		

**Introduction**

Mitochondrial Ribosomal Protein S23, also known as MRPS23 belongs to the mammalian mitochondrial ribosomal proteins which are encoded by nuclear genes and assist in protein synthesis inside the mitochondrion. Mitochondrial ribosomes consist of a small 28S subunit and a large 39S subunit. In addition, they have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. An additional difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Between different species, the proteins containing the mitoribosome differ very much in sequence, and occasionally in biochemical properties, which prevents easy recognition by sequence homology.

**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.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

---

---

## Product Data Sheet

---

### Background

MRPS23 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 213 amino acids (1-190 a.a) and having a molecular mass of 24.2kDa. MRPS23 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

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