

**MRPS23, 1-190 aa Human, His tag, E.coli**

**Cat.NO.: TP03027**

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3th Edition

**Synonyms:**28S ribosomal protein S23, mitochondrial, CGI-138, HSPC329, MRP-S23

**Description:**Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes 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. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. MRPS23 encodes a 28S subunit protein. Recombinant human MRPS23 protein, fused to His-tag at N-terminus, was expressed in E.coli.

**Form:**Liquid. In Phosphate buffer saline(pH 7.4) containing 10% glycerol,

**Molecular Weight:**24.2 kDa (213aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSMAGSRLETVGSIFSRTDLVRAGVLKEKPLWFDVYDAFPPLREPVFQRPRV  
RYGKAKAPIQDIWYHEDRIRAKFYSVYSGQRAFDLFPNFKSTCQRFVEKYTELQKLGETDEEKLFVETGKALLAE  
GVILRRVGEARTQHGGSHVSRKSEHLSVRPQTALEENETQKEVPQDQHLEAPADQSKGLLPP

**Purity:**> 95% by HPLC

**Concentration:**1mg/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.