

## AR51659PU-S

## Human MRPL48 (29-212, His-tag) - Purified

**Alternate names:**

39S ribosomal protein L48, CGI-118, HSPC290, L48mt, MRP-L48, mitochondrial

**Quantity:**

0.1 mg

**Concentration:**

1.0 mg/ml (determined by Bradford assay)

**Background:**

Mammalian mitochondrial ribosomal proteins 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. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein. A pseudogene corresponding to this gene is found on chromosome 6p.

**Uniprot ID:**

[Q96GC5](#)

**NCBI:**

[NP\\_057139](#)

**GeneID:**

[51642](#)

**Species:**

Human

**Source:**

E. coli

**Format:**

**State:** Liquid purified protein

**Purity:** >85% by SDS - PAGE

**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.

**Description:**

Recombinant human MRPL48 protein, fused to His-tag at N-terminus, was expressed in E.coli.

**AA Sequence:**

MGSSHHHHHH SSGLVPRGSH MGSSGEKPIY SVGGILLSIS RPYKTKPTHG IGKYKHLIKA  
EEPKKKKGKV EVRAINLGTD YEYGVNLNHL TAYDMTLAES YAQYVHNLN SLSIKVEESY  
AMPTKTIEVL QLQDQGSKML LDSVLTTHER VVQISGLSAT FAEIFLEIIQ SSLPEGVRLS  
VKEHTEEDFK GRFKARPELE ELLAKLK

**Molecular weight:** 23.1 kDa (207aa)

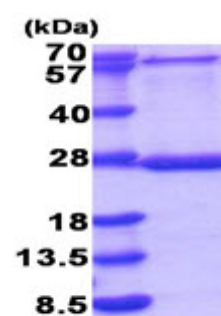
**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**General Readings:**

Burkard T.R., et al. (2011) BMC Syst. Biol. 5:17-17 Lai C.-H., et al. (2000) Genome Res. 10:703-713

Pictures:



15% SDS-PAGE (3ug)