

Product information

MRPL48, 29-212aa

Human, His-tagged, Recombinant, *E.coli*

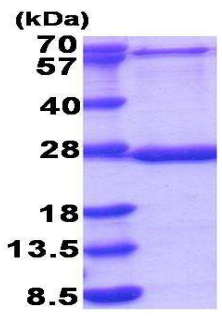
Cat. No. IBATGP2839

Full name: Mitochondrial ribosomal protein L48

NCBI Accession No.: NP_057139

Synonyms: CGI-118, HSPC290, L48MT, MRP-L48

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

<p>Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol</p> <p>Molecular Weight: 23.1 kDa (207aa)</p> <p>Purity: > 85% by SDS - PAGE</p> <p>Concentration: 1 mg/ml (determined by Bradford assay)</p>	 <p>15% SDS-PAGE (3ug)</p>
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Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSSGEKPIY SVGGILLSIS RPYKTKPTHG IGKYKHLIKA EEPK KKKGKV EVRAINLGTD YEYGVLN IHL
 TAYDMTLAES YAQYVHNL CN SLSIKVEESY AMPTKTIEVL QLQDQGSKML LDSVL T THER VVQISGLSAT FAEIFLEI IQ SSLPEGVRLS
 VKEHTEEDFK GRFKARPELE ELLAKLK

General references:

Burkard T.R., *et al.* (2011) *BMC Syst. Biol.* 5:17-17

Lai C.-H., *et al.* (2000) *Genome Res.* 10:703-713

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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