

Product datasheet for **AR51040PU-N**

MRPS25 (1-173, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	MRPS25 (1-173, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMPMKGRF PIRRTLQYLS QGNVVKDSV KVMTVNYNTH GELGEGARKF VFFNIPQIQY KNPWVQIMMF KNMTPSPFLR FYLDSGEQVL VDVETKSNKE IMEHIRKILG KNEETLREEE EEKQLSHPA NFGPRKYCLR ECICEVEGQV PCPSLVPLPK EMRGKYKAAL KADAQD
Tag:	His-tag
Predicted MW:	22.5 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing, 10% glycerol, 0.4M Urea
Preparation:	Liquid purified protein
Protein Description:	Recombinant human MRPS25 protein, fused to His-tag at N-terminus, was expressed in E.coli .
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.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_071942
Locus ID:	64432
UniProt ID:	P82663
Cytogenetics:	3p25.1
Synonyms:	COXPD50; MRP-S25; RPMS25



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Summary:

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. 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 28S subunit protein. A pseudogene corresponding to this gene is found on chromosome 4. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

Product images: