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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

MRPS12 (Human) Recombinant Protein (P01)

Catalog Number: H00006183-P01

Regulation Status: For research use only (RUO)

Product Description: Human MRPS12 full-length ORF (AAH01617, 1 a.a. - 138 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQM
HRLGPPKRPPRKLGPTEGRPQLKGVVLCFTRKPKKP
NSANRKCRCVRLSTGREAVCFIPGEGHTLQEHQIVLV
EGGRTQDLPGVKLTVVRGKYDCGHVQKK

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 40.92

Applications: AP, Array, ELISA, WB-Re

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 6183

Gene Symbol: MRPS12

Gene Alias: MPR-S12, MT-RPS12, RPMS12, RPS12, RPSM12

Gene 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 that belongs to the ribosomal protein S12P family. The encoded protein is a key component of the ribosomal small subunit and controls the decoding fidelity and susceptibility to aminoglycoside antibiotics. The gene for mitochondrial seryl-tRNA synthetase is located upstream and adjacent to this gene, and both genes are possible candidates for the autosomal dominant deafness gene (DFNA4). Splice variants that differ in the 5' UTR have been found for this gene; all three variants encode the same protein. [provided by RefSeq]