

C1orf33/MRTO4 Protein, Human, Recombinant (His)

General Information

Synonyms:	MRT4;dj657E11.4;C1orf33;MRT4 homolog, ribosome maturation factor
Protein Construction:	A DNA sequence encoding the human MRTO4 (Q9UKD2) (Met1-Asp239) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	Q9UKD2
Molecular Weight:	29.4 kDa (predicted); 32 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM Tris, 500 mM NaCl, 10% glycerol, pH 8.0. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

MRTO4 (MRT4 Homolog, Ribosome Maturation Factor) is a Protein Coding gene. MRTO4, also known as MRT4, belongs to the universal ribosomal protein uL10 family. This gene encodes a protein sharing a low level of sequence similarity with ribosomal protein P0. MRTO4 is a nuclear paralog of the ribosomal protein P0, it binds pre-60S subunits at an early stage of assembly in the nucleolus, and is replaced by P0 in cytoplasmic pre-60S subunits and mature 80S ribosomes. The precise function of MRTO4 is currently unknown. It appears to be involved

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in mRNA turnover and ribosome assembly. MRT04 is widely expressed in the appendix, lymph node, and other tissues. Diseases associated with MRT04 include Bacterial Conjunctivitis and Robinow Syndrome, Autosomal Dominant 1.

Reference

Zhao J. et al., 2011, J Proteomics. 75 (2): 588-602.

Havugimana PC. et al., 2012, Cell. 150 (5): 1068-81.

Wu Z. et al., 2012, PLoS One. 7 (8): e43997.

Michalec B. et al., 2010, Int J Biochem Cell Biol. 42 (5): 736-48.

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