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**Product Data Sheet**


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Product Name: MRTO4 Human  
 Cat. No.: GP23952  
 Batch No.: 1

**Product Data**

|                     |   |                    |                         |
|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | E.coli.                 |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | MRNA Turnover 4 Homolog (S. Cerevisiae); MRT4 MRNA Turnover 4 Homolog (S. Cerevisiae); 60S Acidic Ribosomal Protein P0; Chromosome 1 Open Reading Frame 33; C1orf33; MRT4; DJ657E11.4.  |                    |                         |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MGSMPKSKRD KKVSLTKTAK KGLELKQNLI EELRKCVDY KYLFIFSVAN MRNSKLDIR NAWKHSRMFF GKNKVMVAL GRSPSDEYKD NLHQVSKRLR GEVGLLFTNR TKEEVNEWFT KYTEMDYARA GNKAAFTVSL DPGPLEQFPH SMEPQLRQLG LPTALKRGVV TLLSDYEVCK EGDVLTPEQA RVLKLFQYEM AEFKVTIKYM WDSQSGRFQQ MGDDLPEAS ESTEESDSED DD |                    |                         |
| Formulation         | The MRTO4 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT and 20% glycerol.   |                    |                         |

**Introduction**

mRNA turnover protein 4 homolog (MRTO4) is a member of the ribosomal protein L10P family. MRTO4 is a protein sharing a low level of sequence similarity with ribosomal protein P0. Though the precise function of the MRTO4 is presently unknown, it seems to be involved in mRNA turnover and ribosome assembly. MRTO4 is a nucleolar component of the ribosome assembly apparatus which shares remarkable similarity and contends for binding to the 25S rRNA GAR domain with the ribosomal protein P0. The MRTO4 gene is located on human chromosome 1, which extends over 260 million base pairs, is comprised of over 3,000 genes and contains approximately 8% of the human genome.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

MRT04 Human Recombinant produced in E. coli is a single polypeptide chain containing 262 amino acids (1-239) and having a molecular mass of 29.9 kDa. MRT04 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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