

C1orf33/MRTO4 Protein, Human (His)

Cat. No.:	HY-P75465
Synonyms:	mRNA turnover protein 4 homolog; MRTO4; C1orf33; MRT4
Species:	Human
Source:	E. coli
Accession:	Q9UKD2 (M1-D239)
Gene ID:	51154
Molecular Weight:	Approximately 32 kDa

PROPERTIES

AA Sequence	<pre> M P K S K R D K K V S L T K T A K K G L E L K Q N L I E E L R K C V D T Y K Y L F I F S V A N M R N S K L K D I R N A W K H S R M F F G K N K V M M V A L G R S P S D E Y K D N L H Q V S K R L R G E V G L L F T N R T K E E V N E W F T K Y T E M D Y A R A G N K A A F T V S L D P G P L E Q F P H S M E P Q L R Q L G L P T A L K R G V V T L L S D Y E V C K E G D V L T P E Q A R V L K L F G Y E M A E F K V T I K Y M W D S Q S G R F Q Q M G D D L P E S A S E S T E E S D S E D D D </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>C1orf33/MRTO4, a vital player in ribosome assembly, serves as a nuclear paralog of the ribosomal protein P0. It engages with pre-60S subunits during the initial stages of assembly within the nucleolus. Notably, in the subsequent maturation process, C1orf33/MRTO4 is displaced by P0, leading to the formation of cytoplasmic pre-60S subunits and mature 80S ribosomes. This protein actively associates with the pre-60S ribosomal particle, contributing to the intricate machinery orchestrating ribosome biogenesis. Additionally, C1orf33/MRTO4 exhibits interaction with MINAS-60, a product arising from an alternative open reading frame of RBM10, highlighting its involvement in diverse cellular processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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