

Recombinant Human MTO1 protein, His-tagged

Cat. No. MTO1-4643H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MTO1 protein(304-653 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	304-653 aa
Form	The purified protein was lyophilized from sterile phosphate-buffered saline (PBS: 58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, pH 7.4). Prior to lyophilization, 5% (w/v) trehalose and 5% (w/v) mannitol were incorporated as cryoprotective excipients. The protein was eluted with a buffer containing 300 mM imidazole.
AASequence	LEKAKVIQPDGVLLLLPRMECNGAISAHNLPVPGYGVQYDYLDPRQITPSLETHLVQ RLFFAGQINGTTGYEEAAAQGVIAGINASLRVSRKPPFVVSRTGYIGVLIDDLTTLTGT SEPYRMFTSRVEFRLSLRPDNADSRLTLRGYKDAGCVSQQRYERACWMKSSLEEG ISVLKSIEFLSSKWKKLIPEASISTSRSLPVRALDVLKYEEVDMDSLAKAVPEPLKKYT KCRELAERLKIEATYESVLFHQLQEIKGVQQDEALQLPKDLTYLTIRDVSLSHEVREK LHFSRPQTIGAASRIPGVTPAAIINLLRFVKTQRRQSAMNESSKTDQYLCADRLQE REL
Purity	85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Store at 2-8°C for 1-2 weeks. Aliquot and store at -20°C to -80°C for up to 3 months,

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reconstitution with sterile water and addition of an equal volume of glycerol. Avoid repeat freeze-thaw cycles.

Reconstitution

Dissolve the product in 200 µl sterile water to achieve a working concentration of 0.25 g/µl. If experimental compatibility allows, mix the aqueous solution with an equal volume of glycerol (1:1 ratio) after initial reconstitution.

GENE INFORMATION

Gene Name

MTO1 mitochondrial translation optimization 1 homolog (*S. cerevisiae*) [*Homo sapiens*]

Official Symbol

MTO1

Synonyms

MTO1; mitochondrial translation optimization 1 homolog (*S. cerevisiae*); protein MTO1 homolog, mitochondrial; mitochondrial MTO1-3; homolog of yeast Mto1; CGI-02;

Gene ID

25821

mRNA Refseq

NM_001123226

Protein Refseq

NP_001116698

UniProt ID

Q9Y2Z2

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