

Recombinant Human MTO1 Protein, GST-tagged

Cat. No. MTO1-5727H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MTO1 full-length ORF (BAG51977.1, 1 a.a. - 692 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes a mitochondrial protein thought to be involved in mitochondrial tRNA modification. The encoded protein may also play a role in the expression of the non-syndromic and aminoglycoside-induced deafness phenotypes associated with a specific mutation in the mitochondrial 12S rRNA gene. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Molecular Mass	103.7 kDa
AA Sequence	MFYFRGCGRWVAVSFTKQQFPLARLSSDSAAPRTPHFDVIVIGGGHAGTEAATAAA RCGSRTLTLTHRVDTIGQMSCNPSFGGIGKGHLMREVDALDGLCSRICDQSGVHYK VLNRRKGPAVWGLRAQIDRKLYKQNMQKEILNTPLLTVQEGAVEDLILTEPEPEHTG KCRVSGVVLVDGSTVYAESVILTTGTFLRGMIVIGLETHPAGRLGDQPSIGLAQTLEK LGFVVGRLKTGTPPRIAKESINFSILNKHIPDNPSIPFSFTNETVWIKPEGQLPCYLTH NPRVDEIVLKNLHLNSHVKETTRGPRYCPSIESKVLRFNRLHQVWLEPEGMDSLI YPQGLSMTLPAELQEKMTCIRGLEKAKVIQPGYGVQYDYLDPRQITPSLETHLVQRL FFAGQINGTTGYEEAAAQGVIAGINASLRVSRKPPFVVSRTGYIGVLIDDLTTLGTSE PYRMFTSRVEFRLSLRPDNADSRLTLRGYKDAGCVSQQRYERACWMKSSLEEGIS

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VLKSIEFLSSKWKKLIPEASISTSRSLPVRALDVLKYEEVDMDSLAKAVPEPLKKYTKC
 RELAERLKIEATYESVLFHQLQEIKGVQQDEALQLPKDLDYLTIRDVSLSHEVREKLH
 FSRPQTIGAASRIPGVTPAAIINLLRFVKTQRRQSAMNESSKTDQYLCADRLQERE
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Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

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

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](#)

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Protein Refseq	NP_001116698
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UniProt ID	Q9Y2Z2
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