

Recombinant Human TFAM, His-tagged

Cat. No. TFAM-3416H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human TFAM protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	TFAM, also known as MtTF1 or mtTFA, is a mitochondrial transcription factor that is a key activator of mitochondrial transcription as well as a participant in mitochondrial genome replication. TFAM is located primarily in the nuclei of elongated spermatids and may be involved in the regulation of gene expression of the haploid male genome. TFAM has been associated with mitochondrial disorder in humans characterized by ocular myopathy, exercise intolerance and muscle wasting.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol.
Molecular Weight	26.6 kDa (225aa) confirmed by MALDI-TOF.
Purity	> 85% by SDS - PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MSSVLASCPK KPVSSYLRF S KEQLPIFKAQ NP DA KTELI RRIAQRWREL PDSKKKIYQD AYRAEWQVYK EEISRFKEQL TPS QI

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MS LEK EIMDKHLKRK AMTKKKELTL LGKPKRPRSA YNVYVAERFQ EAK GD SP
 QEK LK TVKENWKN LSDSEKELYI QHAKEDETRY HNEMKSWEEQ MIEVGRKDLL
 RRT IKKQRKY GAEEC.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Huntington"s disease; Transcription

GENE INFORMATION

Gene Name

TFAM transcription factor A, mitochondrial [Homo sapiens]

Synonyms

transcription factor A, mitochondrial; TCF6; MtTF1; mtTFA; TCF6L1; TCF6- L2; TCF6L3; TFAM; transcription factor A, mitochondrial; TCF-6; OTTHUMP00-000019632; transcription factor 6; mitochondrial transcription factor 1; mitochondrial transcription factor A; Transcription factor 6-like 2 (mitochondrial transcription factor); Mitochondrial transcription factor 1; Transcription factor 6; Transcription factor 6-like 2; MTTF1

Gene ID

7019

mRNA Refseq

NM_003201

Protein Refseq

NP_003192

MIM

600438

UniProt ID

Q00059

Chromosome

10q21

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Location

Function

DNA binding; protein binding; sequence-specific DNA binding transcription factor activity

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