

Recombinant human TFAM protein

Catalog Number: ATGP0897

PRODUCT INFORMATION

Expression system

E.coli

Domain

43-246aa

UniProt No.

Q00059

NCBI Accession No.

NP_003192.1

Alternative Names

Transcription factor A mitochondrial precursor, Transcription factor A, mitochondrial precursor, MtTF1, mtTFA, TCF6, TCF6L1, TCF6L2, TCF6L3

PRODUCT SPECIFICATION

Molecular Weight

26.6 kDa (225aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human TFAM protein, fused to His-tag at N-

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terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

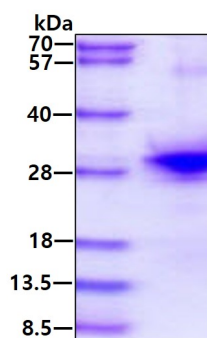
<MGSSHHHHHH SSGLVPRGSH M>SSVLASCPK KPVSYYLRFK KEQLPIFKAQ NPDAKTTELI RRIAQRWREL PDSKKKIYQD
AYRAEWQVYK EEISRFKEQL TPSQIMSLEK EIMDKHLKRK AMTKKKELTL LGKPKRPRSA YNVYVAERFQ EAKGDSPQEK
LKTVKENWKN LSDSEKELYI QHAKEDETRY HNEMKSWEEQ MIEVGRKDLL RRTIKKQRKY GAEEC

General References

Sinha RA., et al. (2010) Biochem Biophys Res Commun. 397(3):548-52.
Aquilano K., et al. (2010) J Biol Chem. 285(28):21590-9.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.