

**AR09837PU-S****Human TFAM / TCF6 (43-246, His-tag) - Purified****Alternate names:**

Mitochondrial transcription factor 1, MtTF1, TCF-6, TCF6L2, Transcription factor 6, Transcription factor 6-like 2, mitochondrial Transcription factor A

**Quantity:**

10 µg

**Concentration:**

0.25 mg/ml (determined by Bradford assay)

**Background:**

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.

**Uniprot ID:**

[Q00059](#)

**NCBI:**

[NP\\_003192](#)

**GeneID:**

[7019](#)

**Species:**

Human

**Source:**

E. coli

**Format:**

**State:** Liquid purified protein

**Purity:** >85%

**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol

**Description:**

Recombinant human TFAM protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**AA Sequence:**

MGSSHHHHHH SSGLVPRGSH MSSVLASCPK KPVSSYLRFK KEQLPIFKAQ NPDAKTTELI  
RRIAQRWREL PDSKKKIYQD AYRAEWQVYK EEISRFKEQL TPSQIMSLEK EIMDKHLKRK  
AMTKKKELTL LGPKRPRSA YNVYVAERFQ EAKGDSPQEK LKTVKENWKN LSDSEKELYI  
QHAKEDTRY HNEKMSWEEQ MIEVGRKDLL RRTIKKQRKY GAEEC

**Molecular weight:** 26.6 kDa (225aa), confirmed by MALDI-TOF

**Storage:**

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

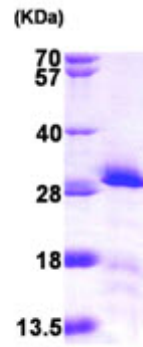
**General Readings:**

Sinha RA., et al. (2010) Biochem Biophys Res Commun. 397(3):548-52.

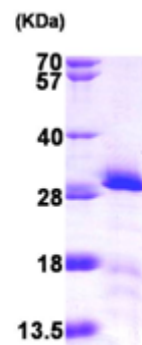
Aquilano K., et al. (2010) J Biol Chem. 285(28):21590-9.

Pictures:

Recombinant human TFAM, 43-246 aa,  
His-tagged



15% SDS-PAGE (3ug)



15% SDS-PAGE (3ug)