



**TFAM, 43-246aa, Human, His tag, E.coli**

**Cat.NO.: TP04181**

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3th Edition

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

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

**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

**Sequences:**

MGSSHHHHHSSGLVPRGSHMSSVLASCPKPPVSSYLRFSEQLPIFKAQNPDAKTTELIRRIAQRWRELPDSKKK  
IYQDAYRAEWQVYKEEISRFEQLTPSQIMSLEKEIMDKHLKRKAMTKKELTLLGPKRPRSAYNVYVAERFQEA  
GDSPQEKLKTVKENWKNLSDSEKELYIQHAKEDETRYHNEMKSWEEQMIEVGRKDLLRRTIKKQRKYGAEEC

**Purity:** > 95% by HPLC

**Concentration:** 0.25 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**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.