

Recombinant Human TFAM, His-tagged

Cat. No. TFAM-30255TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human mtTFA with N terminal His tag; 225 amino acids with tag, MWt 26.6 kDa inclusive of tag.
Species	Human
Source	E.coli
ProteinLength	204 amino acids
Description	This gene encodes a mitochondrial transcription factor that is a key activator of mitochondrial transcription as well as a participant in mitochondrial genome replication. Studies in mice have demonstrated that this gene product is required to regulate the mitochondrial genome copy number and is essential for embryonic development. A mouse model for Kearns-Sayre syndrome was produced when expression of this gene was eliminated by targeted disruption in heart and muscle cells.
Conjugation	HIS
Molecular Weight	26.600kDa inclusive of tags
Form	Liquid
Purity	by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 20% Glycerol, 0.2M Sodium chloride, 5mM DTT, 20mM Tris HCl, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMSSVLASCPKPKPVSSYLRFSEQLPIFKAQNPKDAKT TELIRRIAQRWRELPDSKKKIYQDAYRAEWQVYKEEISRFKEQLTPSQIMSLEKEIMD KHLKRKAMTKKKELTLLGKPKRPRSAYNVYVAERFQEAKGDSPQEKLKTVKENWKN LSDSEKELYIQHAKEDTRYHNEMKSWEEQMIEVGRKDLLRRTIKKQRKYGAEEC
Sequence Similarities	Contains 2 HMG box DNA-binding domains.

GENE INFORMATION

Gene Name	TFAM transcription factor A, mitochondrial [Homo sapiens]
Official Symbol	TFAM
Synonyms	TFAM; transcription factor A, mitochondrial; TCF6, TCF6L2;
Gene ID	7019
mRNA Refseq	NM_003201
Protein Refseq	NP_003192
MIM	600438
Uniprot ID	Q00059

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Chromosome Location	10q21
Pathway	Energy Metabolism, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Mitochondrial Gene Expression, organism-specific biosystem; Mitochondrial transcription initiation, organism-specific biosystem;
Function	DNA binding; chromatin binding; mitochondrial light strand promoter sense binding; protein binding; sequence-specific DNA binding transcription factor activity;

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