
Product Data Sheet

Product Name: TFAM Human
 Cat. No.: GP24805
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Transcription factor A; mitochondrial; TCF6; TCF6L2; Mitochondrial transcription factor 1; Transcription factor 6-like 2; MtTF1; mtTFA; TCF6L1; TCF6L3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSSVLASCPK KPVSSYLRFK KEQLPIFKAQ NPDAKTTELI RRIAQRWREL PDSKKKIYQD AYRAEWQVYK EEISRFKEQL TPSQIMSLEK EIMDKHLKRK AMTKKKELTL LGKPKRPRSA YNVYVAERFQ EAKGDSPQEK LKTVKENWKN LSDSEKELYI QHAKEDETRY HNEMKSWEEQ MIEVGRKDLL RRTIKKQRKY GAEEC		
Formulation	The TFAM protein solution (0.25mg/1ml) is formulated in 20 mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 5mM DTT and 20% glycerol.		

Introduction

TFAM is a mitochondrial transcription factor which is a main activator of mitochondrial transcription and is also a participant in mitochondrial genome replication. TFAM is situated primarily in the nuclei of elongated spermatids and takes part in the regulation of gene expression of the haploid male genome. TFAM is linked to mitochondrial disorder in humans characterized by ocular myopathy, exercise intolerance and muscle wasting.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Background

TFAM produced in E.Coli is a single, non-glycosylated polypeptide chain containing 225 amino acids (43-246.a.a) and having a molecular mass of 26.6kDa. TFAM is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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