

Recombinant Human TFB1M, His-tagged

Cat. No. TFB1M-3619H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TFB1M protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	TFB1M belongs to the methyltransferase superfamily. TFB1M is a dimethyltransferase that methylates mitochondrial 12S rRNA at the conserved stem loop. This protein also is part of the basal mitochondrial transcription complex and is necessary for mitochondrial gene expression. TFB1M stimulates transcription independently of the methyltransferase activity.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT
Molecular Weight	38.8 kDa (340aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MQAAKQLSQN FLLDLRLTDK IVRKAGNLTN AYVVEVGPGP GGITRSILNA DVAELLVVEK DTRFIPGLQM LSDAAPGKLR IVHGDVLTfK VEKAFSESLK RPWEDDPPNV HIIGNLPFSV STPLIIKWLE NISCRDGPfV YGRTQMTLTF QKEVAERLAA NTGSKQRSRL SVMAQYLCNV

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RHIFTIPGQA FVPKPEVDVG VVHFTPLIQP KIEQPFKLVE KVVQNVFQFR
 RKYCHRGRLM LFPEAQRLES TGRLLELADI DPTLRPRQLS ISHFKSLCDV
 YRKMCDDEDPQ LFAYNFREEL KRRKSKNEEK EEDDAENYRL

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.

GENE INFORMATION
Gene Name

TFB1M transcription factor B1, mitochondrial [Homo sapiens]

Official Symbol

TFB1M

Synonyms

TFB1M; CGI75; mtTFB; CGI-75; mtTFB1; transcription factor B1, mitochondrial; dimethyladenosinetransferase 1, mitochondrial; hTFB1M; h-mtTFB1; OTTHUMP00000017473; mitochondrial 12S rRNA dimethylase 1; mitochondrial dimethyladenosinetransferase 1; homolog of yeast mitochondrial transcription factor B; S-adenosylmethionine-6-N", N"-adenosyl(rRNA) dimethyltransferase 1; EC 2.1.1.-; Mitochondrial transcription factor B1; h-mtTFB

Gene ID

51106

mRNA Refseq

NM_016020

Protein Refseq

NP_057104

MIM

607033

UniProt ID

Q8WVM0

Chromosome

6q25.1-q25.3

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Location**Function**

DNA binding; methyltransferase activity; protein binding; rRNA (adenine-N6,N6)-dimethyltransferase activity; transferase activity

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