

# Product information

## TFB1M, 28-346aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1165

**Full name:** Dimethyladenosine transferase 1

**NCBI Accession No.:** NP\_057104

**Synonyms:** TFB1M (Mitochondrial transcription factor B1)

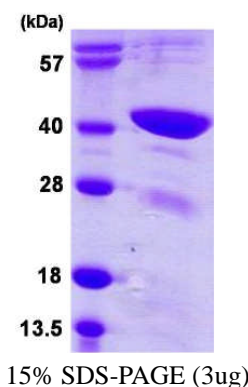
**Description:** TFB1M belongs to the methyltransferase superfamily. TFB1M is a dimethyltransferase that methylates mitochondrial 12S rRNA at the conserved stem loop. This protein also is part of the basal mitochondrial transcription complex and is necessary for mitochondrial gene expression. TFB1M stimulates transcription independently of the methyltransferase activity. Recombinant human TFB1M protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography.

**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:

MGSSHHHHH SSGLVPRGSH MQAAKQLSQN FLLDLRLTDK IVRKAGNLTN AYYVEVGGPG GGITRSILNA DVAELLVVEK DTRFIPGLQM  
LSDAAPGKLR IVHGDVLTFK VEKAFSESLK RPWEDDPPNV HIIGNLPFSV STPLIIKWLE NISCRDGPV YGRTQMTLTF QKEVAERLAA  
NTGSKQRSRL SVMAQYLCNV RHIFTIPGQA FVPKPEVDVG VVHFTPLIQP KIEQPFLVE KVVQNVFQFR RKYCHRLRM LFPEAQRLES  
TGRLLLELADI DPTLRPRQLS ISHFKSLCDV YRKMCDQDPQ LFAYNFREEL KRRKSKNEEK EEDDAENYRL

### General references:

McCulloch V., *et al.* (2002) *Mol. Cell. Biol.* 22:1116-1125

Gleyzer N., *et al.* (2005) *Mol. Cell. Biol.* 25(4):1354-66

**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.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**