

Recombinant human TFB1M protein

Catalog Number: ATGP1165

PRODUCT INFORMATION

Expression system

E.coli

Domain

28-346aa

UniProt No.

Q8WVM0

NCBI Accession No.

NP_057104

Alternative Names

Dimethyladenosine transferase 1, TFB1M (Mitochondrial transcription factor B1)

PRODUCT SPECIFICATION

Molecular Weight

38.8 kDa (340aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH M>QAAKQLSQN FLLDLRLTDK IVRKAGNLTN AYYVEVGPGP GGITRSILNA
DVAELLVVEK DTRFIPGLQM LSDAAPGKLR IVHGDVLTFK VEKAFSESLK RPWEDDPPNV HIIGNLPFSV STPLIIKWLE
NISCRDGPV YGRTQMTLTF QKEVAERLAA NTGSKQRSRL SVMAQYLCNV RHIFTIPGQA FVPKPEVDVG VVHFTPLIQP
KIEQPFKLVE KVVQNVFQFR RKYCHRGLRM LFPEAQRLES TGRLLELADI DPTLRPRQLS ISHFKSLCDV YRKMCDDEPQ
LFAYNFREEL KRRKSKNEEK EEDDAENYRL

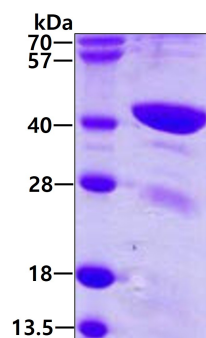
General References

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

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

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.