

TFB1M Human

Description: TFB1M Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 340 amino acids (28-346 a.a.) and having a molecular mass of 38.8kDa. TFB1M is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: PRPS-910

For research use only.

Synonyms: Dimethyladenosine transferase 1 mitochondrial, Mitochondrial 12S rRNA dimethylase 1, Mitochondrial transcription factor B1, h-mtTFB, h-mtTFB1, hTFB1M, mtTFB1, S-adenosylmethionine-6-N'-N'-adenosyl(rRNA) dimethyltransferase 1, TFB1M, CGI-75, CGI75, mtTFB.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Amino Acid Sequence: MGSSHHHHHH SGLVPRGSH MQAAKQLSQN FLLDLRLTDK
IVRKAGNLTN AYYVEVGP GP GGITRSILNA DVAELLVVEK DTRFIPGLQM LSDAAPGKLR
IVHGDVLT FK VEKAFSESLK RPWEDDPPNV HIIGNLPFSV STPLIIKWLE NISCRDGPV
YGR TQMTLTF QKEVAERLAA NTGSKQRSRL SVMAQYLCNV RHIFTIPGQA FVPKPEVDVG
VVHFTPLIQP KI

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

TFB1M protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.

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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

TFB1M is a member of the methyltransferase superfamily. TFB1M is a dimethyltransferase which methylates mitochondrial 12S rRNA at the conserved stem loop. The TFB1M protein also is part of the basal mitochondrial transcription complex and is required for mitochondrial gene expression. TFB1M stimulates transcription independently of the methyltransferase activity.

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