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**Product Data Sheet**


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Product Name: TFB1M Human  
 Cat. No.: GP24806  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MQAAKQLSQN FLLDLRLTDK IVRKAGNLTN AYYVEVGPGP GGITRSILNA DVAELLVVEK DTRFIPGLQM LSDAAPGKLR IVHGDVLTFFK VEKAFSESLK RPWEDDPPNV HIIGNLPFSV STPLIIKWLE NISCRDGPFFV YGRTQMTLTF QKEVAERLAA NTGSKQRSRL SVMAQYLCNV RHIFTIPGQA FVPKPEVDVG VVHFTPLIQP KIEQPFLKVE KVVQNVFQFR RKYCHRGLRM LFPEAQRLES TGRLLELADI DPTLRPRQLS ISHFKSLCDV YRKMCDDEDPQ LFAYNFREEL KRRKSKNEEK EEDDAENYRL.		
Formulation	TFB1M protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.		

**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.

**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.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

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.

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