
Product Data Sheet

Product Name: TFB2M Human
 Cat. No.: GP24807
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Dimethyladenosine transferase 2 mitochondrial; Hepatitis C virus NS5A-transactivated protein 5; HCV NS5A-transactivated protein 5; Mitochondrial 12S rRNA dimethylase 2; Mitochondrial transcription factor B2; h-mtTFB; h-mtTFB2; hTFB2M; mtTFB2; S-adenosylmethionine-6-N'; N'-adenosyl(rRNA) dimethyltransferase 2; TFB2M; NS5ATP5; Hkp1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAGRFCI LGSEAATRKH LPARNHCGLS DSSPQLWPEP DFRNPPRKAS KASLDFKRYV TDRRLAETLA QIYLGKPSRP PHLLLECNPQ PGILTQALLE AGAKVVALES DKTFIPHLES LGKNLDGKLR VIHCDFFKLD PRSGGVKPP AMSSRGLFKN LGIEAVPMTA DIPLKVVGMF PSRGEKRALW KLAYDLYSCT SIYKFGRIEV NMFIGEKEFQ KLMADPGNPD LYHVLSVIWQ LACEIKVLHM EPWSSFDIYT RKGPLENPKR RELLDQLQQK LYLIQMIPRQ NLFTKNLTPM NYNIFFHLLK HCFGRRSATV IDHLRSLTPL DARDILMQIG KQEDEKVVNM HPQDFKTLFE TIERSKDCAY KWLYDETLED R.		
Formulation	TFB2M protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

Transcription Factor B2, Mitochondrial (TFB2M) is an S-adenosyl-L-methionine-dependent methyltransferase which specifically dimethylates mitochondrial 12S rRNA at the conserved stem loop. In addition, TFB2M is essential for basal transcription of mitochondrial DNA, most likely via its interaction with POLRMT and TFAM. TFB2M promotes transcription independently of the methyltransferase activity. TFB2M like TFB1M, activates transcription of mitochondrial DNA more effectively, whilst having less methyltransferase activity.

Stability

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

Product Data Sheet

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.

Background

TFB2M Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 401 amino acids (20-396 a.a) and having a molecular mass of 45.8kDa. TFB2M is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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