9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

TFB2M Human

Transcription Factor B2, Mitochondrial Human Recombinant
RCP2354

Product Overview

Name	TFB2M Human
Description	
Transcription Factor B2, Mitochondrial Human Recombinant	
Accession (Primary)	Q9H5Q4
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.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
TFB2M protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol 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.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	

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MGSSHHHHHH SSGLVPRGSH MGSM AGRFCI LGSEAATRKH LPARNHCGLS DSSPQLWPEP DFRNPPRKAS KASLDFKRYV TDRRLAETLA QIYLGKPSRP PHLLLECNPG PGILTQALLE AGAKVVALES DKTFIPHLES LGKNLDGKLR VIHCDFFKLD PRSGGVIKPP AMSSRGLFKN LGIEAVPWTA DIPLKVVGMF PSRGEKRALW KLAYDLYSCT SIYKFGRIEV NMFIGEKEFQ KLMADPGNPD LYHVLSVIWQ LACEIKVLHM EPWSSFDIYT RKGPLENPKR RELLDQLQQK LYLIQMIPRQ NLFTKNLTPM NYNIFFHLLK HCFGRRSATV IDHLRSLTPL DARDILMQIG KQEDEKVVNM HPQDFKTLFE TIERSKDCAY KWLYDETLED R.

Precautions

TFB2M Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9H5Q4)