

Recombinant Human Transcription Factor B2, Mitochondrial, His-tagged

Cat. No. TFB2M-7205H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TFB2M protein, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques. MW: 45.8 kDa.
Species	Human
Source	<i>E. coli</i>
ProteinLength	20-396aa
Description	TFB2M is S-adenosyl-L-methionine-dependent methyltransferase which specifically dimethylates mitochondrial 12S rRNA at the conserved stem loop. This protein is also required for basal transcription of mitochondrial DNA, probably via its interaction with P OLRMT and TFAM. TFB2M stimulates transcription independently of the methyltransferase activity. Compared to TFB1M, it activates transcription of mitochondrial DNA more efficiently, while it has less methyltransferase activity.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT.
Molecular Mass	45.8 kDa (401aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSMAGRFCI LGSEAATRKH LPARNHCGLS DSSPQLWPEP DFRNPPRKAS KASLDFKRYV TDRRLAETLA QIYLGKPSRP

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PHLLECNPG PGILTQALLE AGAKVVALES DKTFIPHLES LGKNLDGKLR
 VIHCDFFKLD PRSGGVKPP AMSSRGLFKN LGIEAVPWTA DIPLKVVGMF
 PSRGEKRALW KLAYDLYSCT SIYKFGRIEV NMFIGEKEFQ KLMADPGNPD
 LYHVLSVIWQ LACEIKVLHM EPWSSFDIYT RKGPLENPKR RELLDQLQQK
 LYLIQMIPRQ NLFTKNLTPM NYNIFFHLLK HCFGRRSATV IDHLRSLTPL
 DARDILMQIG KQEDEKVVNM HPQDFKTLFE TIERSKDCA Y KWLYDETLED R

Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	TFB2M transcription factor B2, mitochondrial [Homo sapiens]
Official Symbol	TFB2M
Synonyms	TFB2M; transcription factor B2, mitochondrial; dimethyladenosine transferase 2, mitochondrial; FLJ22661; FLJ23182; Hkp1; hTFB2M; h-mtTFB; h-mtTFB2; HCV NS5A-transactivated protein 5; mitochondrial 12S rRNA dimethylase 2; mitochondrial transcription factor B2; hepatitis C virus NS5A-transactivated protein 5; S-adenosylmethionine-6-N, N-adenosyl(rRNA) dimethyltransferase 2; mtTFB2;
Gene ID	64216
mRNA Refseq	NM_022366

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Protein Refseq	NP_071761
MIM	607055
UniProt ID	Q9H5Q4
Chromosome Location	1q44
Pathway	Energy Metabolism, organism-specific biosystem; Gene Expression, organism-specific biosystem; Mitochondrial Gene Expression, organism-specific biosystem; Mitochondrial transcription initiation, organism-specific biosystem; RNA Polymerase I, RNA Polymerase III, and Mitochondrial Transcription, organism-specific biosystem; Transcription from mitochondrial promoters, organism-specific biosystem;
Function	methyltransferase activity; rRNA (adenine-N6,N6-)-dimethyltransferase activity; rRNA methyltransferase activity; transcription cofactor activity; transferase activity;

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