

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 E. coli and purified by using conventional chromatography techniques. MW: 45.8 kDa.
Species	Human
Source	E.coli
ProteinLength	20-396aa
Description	TFB2M is S-adenosyl-L-methionine-dependent methyltransferase which specifically di methylates mitochondrial 12S rRNA at the conserved stem loop. This protein is also r equired for basal transcription of mitochondrial DNA, probably via its interaction with P OLRMT and TFAM. TFB2M stimulates transcription independently of the methyltransf erase activity. Compared to TFB1M, it activates transcription of mitochondrial DNA m ore 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 SSGLVPRGSH MGSMAGRFCI LGSEAATRKH LPARNHCGLS DSSPQLWPEP DFRNPPRKAS KASLDFKRYV TDRRLAETLA QIYLGKPSRP

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PHLLLECNP G PGILTQALLE AGAKVVALES DKTFIPHLES LGKNLDGKLR
 VIHCDFFKLD PRSGGVKPP AMSSRGLFKN LGIEAVPMTA DIPLKVVGMF
 PSRGEKRALW KLAYDLYSCT SIYKFGRIEV NMFIGEKEFQ KLMADPGNPD
 LYHVLSVIWQ LACEIKVLHM EPWSSFDIYT RKGPLENPKR RELDQLQKQ
 LYLIQMIPRQ NLFTKNLTPM NYNIFFHLLK HCFGRRSATV IDHLRSLTPL
 DARDILMQIG KQEDEKVVNM HPQDFKTLFE TIERSKDCAY 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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