

Recombinant Human TFB2M Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TFB2M-696H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TFB2M MS Standard C13 and N15-labeled recombinant protein (NP_071761) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	S-adenosyl-L-methionine-dependent rRNA methyltransferase which may methylate two specific adjacent adenosines in the loop of a conserved hairpin near the 3'-end of 12S mitochondrial rRNA (Probable). Component of the mitochondrial transcription initiation complex, composed at least of TFB2M, TFAM and POLRMT that is required for basal transcription of mitochondrial DNA. In this complex, TFAM recruits POLRMT to a specific promoter whereas TFB2M induces structural changes in POLRMT to enable promoter opening and trapping of the DNA non-template strand. Stimulates transcription independently of the methyltransferase activity.
Molecular Mass	45.3 kDa
AA Sequence	MWIPVVGLPRRLRLSALAGAGRFCILGSEAATRKHLPARNHCGLSDDSSPQLWPEPD FRNPPRKASKASLDFKRYVTDRRLAETLAQIYLGKPSRPPHLLLECNP GPGILTQALL EAGAKVVALES DKTFIPHLESLGKNLDGKLRVIHCDFKLDPRSGGVKPPAMSSRGL FKNLGIEAVPWTADIPKVVGMFPSRGEKRALWKLAYDLYSCTSIYKFGRIEVNMFIG EKEFQKLMADPGNPDLYHVL SVIWQLACEIKVLHMEPWSSFDIYTRKGPLENPKRRE

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LLDQLQQKLYLIQMIPRQNLFTKNLTPMNYNIFFHLLKHCFGRRSATVIDHLRSLTPLD
ARDILMQIGKQEDEKVVNMHPQDFKTLFETIERSKDCAYKWLYDETLEDRTTRTRPLE
QKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name TFB2M transcription factor B2, mitochondrial [[Homo sapiens \(human\)](#)]

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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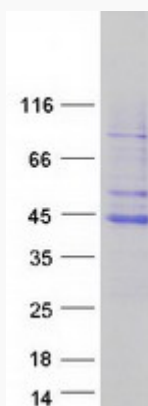
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Protein Refseq NP_071761

MIM 607055

UniProt ID Q9H5Q4

SDS-PAGE



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