

Product information



TFB2M, 20-396aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1773

Full name: Dimethyladenosine transferase 2, mitochondrial

NCBI Accession No.: NP_071761

Synonyms: Hkp1, mtTFB2

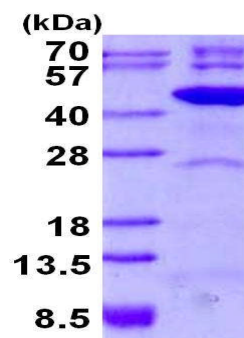
Description: TFB2M is S-adenosyl-L-methionine-dependent methyltransferase which specifically dimethylates mitochondrial 12S rRNA at the conserved stem loop. This protein is also required for basal transcription of mitochondrial DNA, probably via its interaction with POLRMT and TFAM. TFB2M stimulates transcription independently of the methyltransferase activity. Compared to TFB1M, it activates transcription of mitochondrial DNA more efficiently, while it has less methyltransferase activity. Recombinant human TFB2M protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl,
10% glycerol, 1mM DTT

Molecular Weight: 45.8 kDa (401aa) confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSMAGRFCI LGSEAATRKH LPARNHCGLS DSSPQLWPEP DFRNPPrKAS KASLDFKRYV TDRRLAETLA
QIYLGKPSRP PHLLLECNP GILTQALLE AGAKVVALES DKTFIPHLES LGKNLDGKLR VIHCDFFKLD PRSGGVIKPP AMSSRGLFKN
LGIEAVPMTA DIPLKVVGMF PSRGEKRALW KLAYDLYSCT SIYKFGRIEV NMFIGEKEFQ KLMADPGNPD LYHVLVSIWQ LACEIKVLHM
EPWSSFDIYT RKGPLENPKR RELLDQLQKQ LYLIQMIPRQ NLFTKNLTPM NYNIFFHLLK HCFGRRSATV IDHLRSLTPL DARDILMQIG
KQDEKVVNM HPQDFKTLFE TIERSKDCAY KWLVDETLED R

General references:

Litonin, D., et al. (2010) *J. Biol. Chem.* 285 (24), 18129-18133

Norrbom, J., et al. (2010) *Acta Physiol (Oxf)* 198 (1), 71-79.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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