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AR50597PU-S Human TFB2M (20-396, His-tag) - Purified

Alternate names: Dimethyladenosine transferase 2 mitochondrial, Hepatitis C virus NS5A-transactivated protein 5, Mitochondrial 12S rRNA dimethylase 2, Mitochondrial transcription factor B2, N'-adenosyl(rRNA) dimethyltransferase 2, NS5ATP5, S-adenosylmethionine-6-N', mtTFB2

Quantity: 50 µg

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

Background: 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.

Uniprot ID: Q9H5Q4

NCBI: NP_071761

GeneID: 64216

Species: Human

Source: E. coli

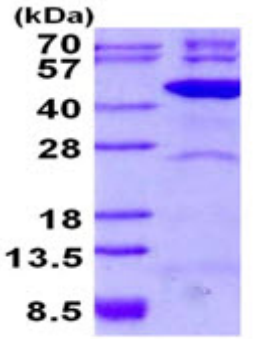
Format: **State:** Liquid purified protein
Purity: >90% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol,1mM DTT

Description: Recombinant human TFB2M protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MGSMAGRFCI 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
Molecular weight: 45.8 kDa (401aa) confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: Litonin,D.,et al. (2010) J. Biol. Chem. 285 (24), 18129-18133Norrbom,J.,et al. (2010) Acta Physiol (Oxf) 198 (1), 71-79.

Pictures:



15% SDS-PAGE (3ug)