Recombinant human TFB2M protein

Catalog Number: ATGP1773

PRODUCT INFORMATION

Expression system
E.coli

Domain
20-396aa

UniProt No.
Q9H5Q4

NCBI Accession No.
NP_071761.1

Alternative Names
Dimethyladenosine transferase 2 mitochondrial, Dimethyladenosine transferase 2, mitochondrial, Hkp1, mtTFB2

PRODUCT SPECIFICATION

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

Concentration
0.5mg/ml (determined by Bradford assay)

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

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

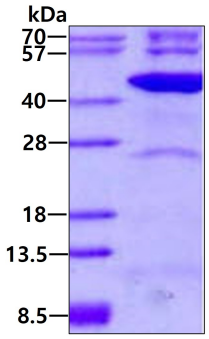
<MGSSHHHHHH SSGLVPRGSH MGSM>AGRFCI LGSEAATRKH LPARNHCGLS DSSPQLWPEP DFRNPPRKAS KASLDFKRYV TDRRLAETLA QIYLGKPSRP PHLLLECNPG PGILTQALLE AGAKVVALES DKTFIPHLES LGKNLDGKLR VIHCDFFKLD PRSGGVIKPP AMSSRGLFKN LGIEAVPWTA DIPLKVVGMF PSRGEKRALW KLAYDLYSCT SIYKFGRIEV NMFIGEKEFQ KLMADPGNPD LYHVLSVIWQ LACEIKVLHM EPWSSFDIYT RKGPLENPKR RELLDQLQQK LYLIQMIPRQ NLFTKNLTPM NYNIFFHLLK HCFGRRSATV IDHLRSLTPL DARDILMQIG KQEDEKVVNM HPQDFKTLFE TIERSKDCAY KWLYDETLED R

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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.