Recombinant human METTL1 protein
Catalog Number: ATGP0869

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-276aa

UniProt No.
Q9UBP6

NCBI Accession No.
NP_005362

Alternative Names
Methyltransferase like 1, TRM8, YDL201w

PRODUCT SPECIFICATION

Molecular Weight
33.6 kDa (296aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 50mM NaCl

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
METTL1 is known as tRNA (guanine-N (7) -) -methyltransferase which belongs to the methyltransferase superfamily. METTL1 shows high sequence similarity to yeast ORF YDL201w and has been shown to be inactivated by phosphorylation. This protein contains a conserved S-adenosylmethionine-binding motif and is inactivated by phosphylation. It catalyzes the formation of N (7) -methylguanine at position 46 (m7G46) in tRNA. Recombinant human METTL1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
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Amino acid Sequence
<MGSSHHHHHH SSGLVPRGSH> MAAETRNVAG AEAPPPQKRY YRQRAHSNPM ADHTLRYPVK PEEMDWSELY PEFFAPLTQN QSHDDPKDKK EKRAQAQVEF ADIGCGYGGL LVELSPLFPD TLILGLEIRV KVSDYVQDRI RALRAAPAGG FQNIACLRSN AMKHLPNFFY KGQLTKMFFL FPDPHFKRTK HKWRIISPTL LAEYAYVLRV GGLVYTITDV LELHDWMCTH FEEHPLFERV PLEDLSEDPV VGHLGTSTEE GKKVLRNGGK NFPAIFRRIQ DPVLQAVTSQ TSLPGH

General References
Matsumoto K., et al. (2008) J. Biotechnol. 133: 453-460.
Alexandrov A., et al. (2002) RNA 8:1253-1266

DATA

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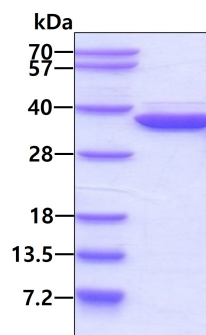
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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