

Recombinant human DIMT1 protein

Catalog Number: ATGP1622

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-313aa

UniProt No.

Q9UNQ2

NCBI Accession No.

NP_055288

Alternative Names

DIM1 dimethyladenosine transferase 1 homolog, DIM1, DIMT1L, HSA9761, HuSSY5

PRODUCT SPECIFICATION

Molecular Weight

37.5 kDa (334aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 2mM DTT, 200mM NaCl, 2mM EDTA

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

DIMT1 (DIM1 dimethyladenosine transferase 1 homolog) belongs to the methyltransferase superfamily. This enzyme is specifically dimethylates two adjacent adenosines in the loop of a conserved hairpin near the 3'-end of 18S rRNA in the 40S particle. It functions to dimethylate adjacent adenosines on the conserved hairpin loop of 18S rRNA in the 40S particle. DIMT1L is localized to the nucleolus. Recombinant human DIMT1 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

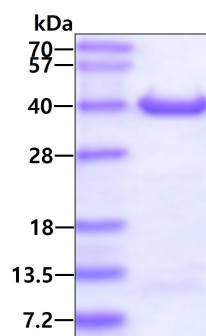
<MGSSHHHHHH SSGLVPRGSH M>MPKVKSGAI GRRRGRQEQR RELKSAGGLM FNTGIGQHIL KNPLIINSII DKAALRPTDV
VLEVGPGTGN MTVKLEKAK KVVACELDPR LVAELHKRVQ GTPVASKLQV LVGDVLKTDL PFFDTCVANL PYQISSPFVF
KLLHRPFFR CAILMFQREF ALRLVAKPGD KLYCRLSINT QLLARVDHLM KVGKNNFRPP PKVESSVVRI EPKNPPPPIN
FQEWDLVRI TFVRKNKTLS AAFKSSAVQQ LLEKNYRIHC SVHNIIPED FSIADKIQQI LTSTGFSDKR ARSMDIDDFI
RLLHGFNAEG IHFS

General References

Scherl A., et al. (2002) Mol. Biol. Cell 13:4100-4109
Saltman, et al. (1993) Genomics 16:726-732.

DATA

SDS-PAGE



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