

Recombinant Human DIM1 Dimethyladenosine Transferase 1 Homolog (*S. cerevisiae*), His-tagged

Cat. No. DIMIT1-2513H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DIMIT1 protein, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques.
Species	Human
Source	<i>E. coli</i>
ProteinLength	1-313aa
Description	DIMIT1 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. DIMIT1L is localized to the nucleolus.
Form	Liquid. In 20 mM Tris-HCl buffer, pH8.0, 30% glycerol, 2mM DTT, 200mM NaCl, 2mM EDTA.
Molecular Mass	37.5 kDa (334aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MMPKVKSGAI GRRRGRQEQR RELKSAGGLM FNTGIGQHIL KNPLIINSII DKAALRPTDV VLEVPGGTGN MTVKLLEKAK KVVACELDPR LVAELHKRVQ GTPVASKLQV LVGDVLKTDL PFFDTCVANL PYQISSPFVF KLLHHPFFR CAILMFQREF ALRLVAKPGD KLYCRLSINT

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QLLARVDHLM KVGKNNFRPP PKVESSVURI EPKNPPPPIN FQEWGDLVRI
TFVRKNKTLS AAFKSSAVQQ LLEKNYRIHC SVHNIIPED FSIADKIQQI
LTSTGFSDKR ARSMDIDDFI RLLHGFNAEG IHFS

Purity >90% by SDS - PAGE

Applications SDS-PAGE

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.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [DIMIT1 DIM1 dimethyladenosine transferase 1 homolog \(S. cerevisiae\) \[Homo sapiens \]](#)

Official Symbol DIMT1

Synonyms DIMT1; DIM1 dimethyladenosine transferase 1 homolog (S. cerevisiae); DIM1 dimethyladenosine transferase 1 like (S. cerevisiae) , DIMT1L; probable dimethyladenosine transferase; HSA9761; 18S rRNA dimethylase; dimethyladenosine transferase; probable 18S rRNA dimethylase; S-adenosylmethionine-6-N,N-adenosyl(rRNA) dimethyltransferase; 18S rRNA (adenine(1779)-N(6)/adenine(1780)-N(6))-dimethyltransferase; probable S-adenosylmethionine-6-N,N-adenosyl(rRNA) dimethyltransferase; probable 18S rRNA (adenine(1779)-N(6)/adenine(1780)-N(6))-dimethyltransferase; DIM1; DIMT1L; HUSSY5;

Gene ID [27292](#)

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mRNA Refseq	NM_014473
Protein Refseq	NP_055288
MIM	612499
UniProt ID	Q9UNQ2
Chromosome Location	5q12.1
Function	RNA binding; methyltransferase activity; rRNA (adenine-N6,N6-)-dimethyltransferase activity; transferase activity;

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