DIMT1 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	DIMT1, Blocking Peptide
Full Product Name	DIMT1 Peptide - middle region
Product Gene Name	DIMT1 blocking peptide
Product Synonym Gene Name	DIM1; DIMT1L; HUSSY5; HSA9761
Sequence	Synthetic peptide located within the following region: QLLARVDHLM KVGKNNFRPP PKVESSVVRI EPKNPPPPIN FQEWDGLVRI
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	DIMT1 peptide (MBS3246963) is used for blocking the activity of DIMT1 antibody (MBS3222290)
Molecular Weight	35 kDa
OMIM	612499
Product Categories/Family for DIMT1 blocking peptide	Peptide
Related Product Information for DIMT1 blocking peptide	The protein encoded by this gene is a methyltransferase that is responsible for dimethylation of adjacent adenosines near the 18S rRNA decoding site. The encoded protein is essential for ribosome biogenesis, although its catalytic activity is not involved in the process. The yeast ortholog of this protein functions in the cytoplasm while this protein functions in the nucleus.
Other Notes	Small volumes of DIMT1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DIMT1 purchase	MBS3246963 is a blocking peptide targeting DIMT1. Also known as DIMT1 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DIMT1. It may not necessarily be applicable to this product.

NCBI GI #	7657198
NCBI GeneID	27292
NCBI Accession #	NP_055288.1
UniProt Primary Accession #	Q9UNQ2
UniProt Related Accession #	Q9UNQ2
GenBank Nucleotide #	NM_014473.2
NCBI Official Full Name	probable dimethyladenosine transferase isoform 1
NCBI Official Synonym Full Names	DIM1 dimethyladenosine transferase 1 homolog
NCBI Official Symbol	DIMT1

NCBI Official Synonym Symbols	DIM1; DIMT1L; HUSSY5; HSA9761
UniProt Protein Name	Probable dimethyladenosine transferase
UniProt Synonym Protein Names	DIM1 dimethyladenosine transferase 1 homolog; DIM1 dimethyladenosine transferase 1-like; Probable 18S rRNA (adenine(1779)-N(6)/adenine(1780)-N(6))-dimethyltransferase; Probable 18S rRNA dimethylase; Probable S-adenosylmethionine-6-N',N'-adenosyl(rRNA) dimethyltransferase
Protein Family	Probable dimethyladenosine transferase
UniProt Gene Name	DIMT1
UniProt Synonym Gene Names	DIMT1L
UniProt Entry Name	DIM1_HUMAN
NCBI Protein Information	probable dimethyladenosine transferase
UniProt Comments for DIMT1	DIMT1: Specifically dimethylates two adjacent adenosines in the loop of a conserved hairpin near the 3'-end of 18S rRNA in the 40S particle. Belongs to the methyltransferase superfamily. rRNA adenine N(6)-methyltransferase family. Protein type: EC 2.1.1.183; Nucleolus; RNA-binding; Methyltransferase Chromosomal Location of Human Ortholog: 5q12.1 Cellular Component: cytoplasm; nucleolus; nucleus Molecular Function: rRNA (adenine-N6,N6-)-dimethyltransferase activity Biological Process: rRNA methylation
Research Articles on DIMT1	**1.** DIMT1 is overexpressed in gastric carcinoma and is significantly correlated with poor prognosis.
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