

Recombinant Mouse Ntmt1 Protein, Myc/DDK-tagged

Cat. No. Ntmt1-4520M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length N-terminal Xaa-Pro-Lys N-methyltransferase 1 (Ntmt1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Distributive alpha-N-methyltransferase that methylates the N-terminus of target proteins containing the N-terminal motif [Ala/Gly/Pro/Ser]-Pro-Lys when the initiator Met is cleaved. Specifically catalyzes mono-, di- or tri-methylation of the exposed alpha-amino group of the Ala, Gly or Ser residue in the [Ala/Gly/Ser]-Pro-Lys motif and mono- or di-methylation of Pro in the Pro-Pro-Lys motif. Some of the substrates may be primed by METTL11B-mediated monomethylation. Catalyzes the trimethylation of the N-terminal Gly in CENPA (after removal of Met-1). Responsible for the N-terminal methylation of KLHL31, MYL2, MYL3, RB1, RCC1, RPL23A and SET. Required during mitosis for normal bipolar spindle formation and chromosome segregation via its action on RCC1.
Molecular Mass	25.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Ntmt1 N-terminal Xaa-Pro-Lys N-methyltransferase 1 [Mus musculus (house mouse)]
Official Symbol	Ntmt1
Synonyms	Ntmt1; N-terminal Xaa-Pro-Lys N-methyltransferase 1; NTM1A; Mettl1; AL033331; AL033332; Mettl11a; 2610205E22Rik; N-terminal Xaa-Pro-Lys N-methyltransferase 1; X-Pro-Lys N-terminal protein methyltransferase 1A; alpha N-terminal protein methyltransferase 1A; methyltransferase like 11A; methyltransferase-like protein 11A; EC 2.1.1.244
Gene ID	66617
mRNA Refseq	NM_170592
Protein Refseq	NP_733480
UniProt ID	Q8R2U4