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Product datasheet for TP502578

Ntmt1 (NM_170592) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse N-terminal Xaa-Pro-Lys N-methyltransferase 1 (Ntmt1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR202578 protein sequence Red=Cloning site Green=Tags(s) MTSEVIEDEKQFYSKAKTYWKQIPPTVDGMLGGYGHISNIDLNSSRKFLQRFLREGPNKTGTSCALDCGA GIGRITKRLLLPLFRVVDMVDVTEDFLAKAKTYLGEEGKRVRNYFCCGLQDFSPEPGSYDVIWIQWVIGH LTDQHLAEFLRRCKRGLRPNGIIVIKDNMAQEGVILDDVDSSVCRDLEVVRRIIRTAGLSLLAEERQENL PDEIYHVYSFALR TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	25.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_733480
Locus ID:	66617
UniProt ID:	Q8R2U4
RefSeq Size:	1217

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Cytogenetics: 2 B

RefSeq ORF: 672

Synonyms: 2610205E22Rik; AL033331; AL033332; Mettl11a; NTM1A

Summary: 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 (PubMed:20668449). 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) (By similarity). 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 (PubMed:20668449). [UniProtKB/Swiss-Prot Function]