Recombinant human N-terminal Xaa-Pro-Lys N-methyltransferase 1

Catalog No: #AP71579

Package Size: #AP71579-1 20ug #AP71579-2 100ug #AP71579-3 1mg

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Description

Product Name	Recombinant human N-terminal Xaa-Pro-Lys N-methyltransferase 1
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-223aaSequence Info:Full Length
Other Names	Alpha N-terminal protein methyltransferase 1AMethyltransferase-like protein 11AN-terminal R;CC1 methyltransferaseX-Pro-Lys N-terminal protein methyltransferase 1A ;NTM1A
Accession No.	Q9BV86
Uniprot	Q9BV86
GeneID	28989;
Calculated MW	41.4 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MTSEVIEDEKQFYSKAKTYWKQIPPTVDGMLGGYGHISSIDINSSRKFLQRFLREGPNKTGTSCALDCGAGIGR ITKRLLLPLFREVDMVDITEDFLVQAKTYLGEEGKRVRNYFCCGLQDFTPEPDSYDVIWIQWVIGHLTDQHLAE FLRRCKGSLRPNGIIVIKDNMAQEGVILDDVDSSVCRDLDVVRRIICSAGLSLLAEERQENLPDEIYHVYSFALR
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Distributive alpha-N-methyltransferase that methylates the N-terminus of target proteins containing the N-terminal motif [Ala,Pro,Ser]-Pro-Lys when the initiator Met is cleaved. Specifically catalyzes mono-, di- or tri-methylation of exposed alpha-amino group of Ala or Ser residue in the [Ala,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. 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.

References

Gene expression profiling in the human hypothalamus-pituitary-adrenal axis and full-length cDNA cloning.Hu R.-M., Han Z.-G., Song H.-D., Peng Y.-D., Huang Q.-H., Ren S.-X., Gu Y.-J., Huang C.-H., Li Y.-B., Jiang C.-L., Fu G., Zhang Q.-H., Gu B.-W., Dai M., Mao Y.-F., Gao G.-F., Rong R., Ye M. , Zhou J., Xu S.-H., Gu J., Shi J.-X., Jin W.-R., Zhang C.-K., Wu T.-M., Huang G.-Y., Chen Z., Chen M.-D., Chen J.-L.Proc. Natl. Acad. Sci. U.S.A. 97:9543-9548(2000)Research Topic:Cell Biology

Note: This product is for in vitro research use only