Protein Arginine N-Methyltransferase 7 (PRMT7) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein arginine N-methyltransferase 7 (Prmt7), Recombinant Protein
Full Product Name	Recombinant Mouse Protein arginine N-methyltransferase 7 (Prmt7)
Product Gene Name	Prmt7 recombinant protein
Product Synonym Gene Name	Prmt7
Sequence	MKVFCGRANP TTGSLEWLEE DEHYDYHQEI ARSSYADMLH DKDRNIKYYQ GIRAAVSRVK DRGQKALVLD IGTGTGLLSM MAVTAGADFC YAIEVFKPMA EAAVKIVERN GFSDKIKVIN KHSTEVTVGP DGDLPCRANI LITELFDTEL IGEGALPSYE HAHKHLVQED CEAVPHRATV YAQLVESRRM WSWNKLFPVR VRTSLGEQVI VPPSELERCP GAPSVCDIQL NQVSPADFTV LSDVLPMFSV DFSKQVSSSA ACHSRQFVPL ASGQAQVVLS WWDIEMDPEG KIKCTMAPFW AQTDPQELQW RDHWMQCVYF LPQEEPVVQG SPRCLVAHHD DYCVWYSLQR TSPDENDSAY QVRPVCDCQA HLLWNRPRFG EINDQDRTDH YAQALRTVLL PGSVCLCVSD GSLLSMLAHH LGAEQVFTVE SSVASYRLMK RIFKVNHLED KISVINKRPE LLTAADLEGK KVSLLLGEPF FTTSLLPWHN LYFWYVRTSV DQHLAPGAVV MPQAASLHAV IVEFRDLWRI RSPCGDCEGF DVHIMDDMIK HSLDFRESRE AEPHPLWEYP CRSLSKPQEI LTFDFQQPIP QQPMQSKGTM ELTRPGKSHG AVLWMEYQLT PDSTISTGLI NPAEDKGDCC WNPHCKQAVY FLSTTLDLRV PLNGPRSVSY VVEFHPLTGD ITMEFRLADT LS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	78,301 Da
Sequence Positions	1-692, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q922X9
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Prmt7 recombinant protein	MBS1326356 is a recombinant protein targeting Prmt7. Also known as Recombinant Mouse Protein arginine N-methyltransferase 7 (Prmt7). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Prmt7 recombinant protein 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Prmt7. It may not necessarily be applicable to this product.

NCBI GI #	21703808
NCBI GeneID	214572

NCBI Accession #	NP_663379.1
UniProt Primary Accession #	Q922X9
UniProt Secondary Accession #	Q3TRZ6; Q69Z62; Q6B955; Q6PG80
UniProt Related Accession #	Q922X9
GenBank Nucleotide #	NM_145404.1
NCBI Official Full Name	protein arginine N-methyltransferase 7
NCBI Official Synonym Full Names	protein arginine N-methyltransferase 7
NCBI Official Symbol	Prmt7
NCBI Official Synonym Symbols	BC006705; 4933402B05Rik
UniProt Protein Name	Protein arginine N-methyltransferase 7
UniProt Synonym Protein Names	Histone-arginine N-methyltransferase PRMT7; [Myelin basic protein]-arginine N-methyltransferase PRMT7
UniProt Gene Name	Prmt7
UniProt Synonym Gene Names	Kiaa1933
NCBI Protein Information	protein arginine N-methyltransferase 7
UniProt Comments for Prmt7	Arginine methyltransferase that can both catalyze the formation of omega-N monomethylarginine (MMA) and symmetrical dimethylarginine (sDMA), with a preference for the formation of MMA. Specifically mediates the symmetrical dimethylation of arginine residues in the small nuclear ribonucleoproteins Sm D1 (SNRPD1) and Sm D3 (SNRPD3); such methylation being required for the assembly and biogenesis of snRNP core particles. Specifically mediates the symmetric dimethylation of histone H4 'Arg-3' to form H4R3me2s. Plays a role in gene imprinting by being recruited by CTCFL at the H19 imprinted control region (ICR) and methylating histone H4 to form H4R3me2s, possibly leading to recruit DNA methyltransferases at these sites. May also play a role in embryonic stem cell (ESC) pluripotency. Also able to mediate the arginine methylation of histone H2A and myelin basic protein (MBP) in vitro; the relevance of such results is however unclear in vivo ().
Research Articles on Prmt7	**1.** Of the 28 proteins, only arginine methyltransferase 7 (PRMT7) changed substantially during mouse embryogenesis and promoted the conversion of mouse fibroblasts into iPSCs. Specifically, PRMT7 replaced SOX2 in a factor-substitution assay, yielding iPSCs
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