Histone-Lysine N-Methyltransferase SUV39H2 (SUV39H2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Histone-lysine N-methyltransferase SUV39H2 (Suv39h2), Recombinant Protein
Full Product Name	Recombinant Mouse Histone-lysine N-methyltransferase SUV39H2 (Suv39h2)
Product Gene Name	Suv39h2 recombinant protein
Product Synonym Gene Name	Suv39h2
Sequence	MATARAKARG SEAGARCHRA PGPPPRPKAR RTARRRRAET LTARRSRPSA GERRAGSQRA WSGAPRAAVF GDECARGALF KAWCVPCLVS LDTLQELCRK EKLTCKSIGI TKRNLNNYEV EYLCDYKVAK GVEYYLVKWK GWPDSTNTWE PLRNLRCPQL LRQFSDDKKT YLAQERKCKA VNSKSLQPAI AEYIVQKAKQ RIALQRWQDY LNRRKNHKGM IFVENTVDLE GPPLDFYYIN EYRPAPGISI NSEATFGCSC TDCFFDKCCP AEAGVVLAYN KKQQIKIQPG TPIYECNSRC RCGPECPNRI VQKGTQYSLC IFKTSNGCGW GVKTLVKIKR MSFVMEYVGE VITSEEAERR GQFYDNKGIT YLFDLDYESD EFTVDAARYG NVSHFVNHSC DPNLQVFSVF IDNLDTRLPR IALFSTRTIN AGEELTFDYQ MKGSGEASSD SIDHSPAKKR VRTQCKCGAE TCRGYLN
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	54,098 Da
Sequence Positions	1-477, 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 Q9EQQ0
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Suv39h2 recombinant protein	MBS1384355 is a recombinant protein targeting Suv39h2. Also known as Recombinant Mouse Histone-lysine N-methyltransferase SUV39H2 (Suv39h2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Suv39h2 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 Suv39h2. It may not necessarily be applicable to this product.

NCBI GI #	31543790
NCBI GeneID	64707
NCBI Accession #	NP_073561.2

UniProt Primary Accession #	Q9EQQ0
UniProt Secondary Accession #	Q8BNK2; Q9CUK3; Q9JLP7
UniProt Related Accession #	Q9EQQ0
GenBank Nucleotide #	NM_022724.4
NCBI Official Full Name	histone-lysine N-methyltransferase SUV39H2
NCBI Official Synonym Full Names	suppressor of variegation 3-9 2
NCBI Official Symbol	Suv39h2
NCBI Official Synonym Symbols	KMT1B; AA536750; D2Ertd544e; 4930507K23Rik; D030054H19Rik
UniProt Protein Name	Histone-lysine N-methyltransferase SUV39H2
UniProt Synonym Protein Names	Histone H3-K9 methyltransferase 2; H3-K9-HMTase 2; Suppressor of variegation 3-9 homolog 2; Su(var)3-9 homolog 2
Protein Family	Histone-lysine N-methyltransferase
UniProt Gene Name	Suv39h2
UniProt Synonym Gene Names	H3-K9-HMTase 2; Su(var)3-9 homolog 2
NCBI Protein Information	histone-lysine N-methyltransferase SUV39H2
UniProt Comments for Suv39h2	Histone methyltransferase that specifically trimethylates 'Lys-9' of histone H3 using monomethylated H3 'Lys-9' as substrate. H3 'Lys-9' trimethylation represents a specific tag for epigenetic transcriptional repression by recruiting HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. Mainly functions in heterochromatin regions, thereby playing a central role in the establishment of constitutive heterochromatin at pericentric and telomere regions. H3 'Lys-9' trimethylation is also required to direct DNA methylation at pericentric repeats. SUV39H1 is targeted to histone H3 via its interaction with RB1 and is involved in many processes, such as cell cycle regulation, transcriptional repression and regulation of telomere length. May participate in regulation of higher-order chromatin organization during spermatogenesis. Recruited by the large PER complex to the E-box elements of the circadian target genes such as PER2 itself or PER1, contributes to the conversion of local chromatin to a heterochromatin-like repressive state through H3 'Lys-9' trimethylation.
Research Articles on Suv39h2	**1.** Data indicate that histone methyltransferase Suv39h2 expression is up-regulated in the liver in liver steatosis.
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