Lysine-Specific Demethylase 4d (KDM4D) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Lysine-specific demethylase 4D (KDM4D), Recombinant Protein
Full Product Name	Recombinant Human Lysine-specific demethylase 4D (KDM4D)
Product Gene Name	KDM4D recombinant protein
Product Synonym Gene Name	KDM4D
Sequence	METMKSKANC AQNPNCNIMI FHPTKEEFND FDKYIAYMES QGAHRAGLAK IIPPKEWKAR ETYDNISEIL IATPLQQVAS GRAGVFTQYH KKKKAMTVGE YRHLANSKKY QTPPHQNFED LERKYWKNRI YNSPIYGADI SGSLFDENTK QWNLGHLGTI QDLLEKECGV VIEGVNTPYL YFGMWKTTFA WHTEDMDLYS INYLHLGEPK TWYVVPPEHG QRLERLAREL FPGSSRGCGA FLRHKVALIS PTVLKENGIP FNRITQEAGE FMVTFPYGYH AGFNHGFNCA EAINFATPRW IDYGKMASQC SCGEARVTFS MDAFVRILQP ERYDLWKRGQ DRAVVDHMEP RVPASQELST QKEVQLPRRA ALGLRQLPSH WARHSPWPMA ARSGTRCHTL VCSSLPRRSA VSGTATQPRA AAVHSSKKPS STPSSTPGPS AQIIHPSNGR RGRGRPPQKL RAQELTLQTP AKRPLLAGTT CTASGPEPEP LPEDGALMDK PVPLSPGLQH PVKASGCSWA PVP
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	58,603 Da
Sequence Positions	1-523, 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.
OMIM	609766
3D Structure	ModBase 3D Structure for Q6B0I6
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for KDM4D recombinant protein	MBS1423171 is a recombinant protein targeting KDM4D. Also known as Recombinant Human Lysine-specific demethylase 4D (KDM4D). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of KDM4D 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 KDM4D. It may not necessarily be applicable to this product.

NCBI GI #	39653317
NCBI GeneID	55693

NCBI Accession #	NP_060509.2
UniProt Primary Accession #	Q6B0I6
UniProt Secondary Accession #	Q0VF39; Q9NT41; Q9NW76; B3KPC4
UniProt Related Accession #	Q6B0I6
GenBank Nucleotide #	NM_018039.2
NCBI Official Full Name	lysine-specific demethylase 4D
NCBI Official Synonym Full Names	lysine demethylase 4D
NCBI Official Symbol	KDM4D
NCBI Official Synonym Symbols	JMJD2D
UniProt Protein Name	Lysine-specific demethylase 4D
UniProt Synonym Protein Names	JmjC domain-containing histone demethylation protein 3D; Jumonji domain-containing protein 2D
Protein Family	Lysine-specific demethylase
UniProt Gene Name	KDM4D
UniProt Synonym Gene Names	JHDM3D; JMJD2D
NCBI Protein Information	lysine-specific demethylase 4D
UniProt Comments for KDM4D	Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys-20'. Demethylates both di- and trimethylated H3 'Lys-9' residue, while it has no activity on monomethylated residues. Demethylation of Lys residue generates formaldehyde and succinate.
Research Articles on KDM4D	**1.** The results demonstrate a novel mechanism by which Kdm4d regulates DNA replication by reducing the H3K9me3 level to facilitate formation of preinitiation complex.
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