Lysine-Specific Histone Demethylase 1b (KDM1B) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Lysine-specific histone demethylase 1B (Kdm1b), Recombinant Protein
Full Product Name	Recombinant Mouse Lysine-specific histone demethylase 1B (Kdm1b) , partial
Product Gene Name	Kdm1b recombinant protein
Product Synonym Gene Name	Kdm1b
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	22,813 Da
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 Q8CIG3
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Kdm1b recombinant protein	MBS1332133 is a recombinant protein targeting Kdm1b. Also known as Recombinant Mouse Lysine-specific histone demethylase 1B (Kdm1b) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Kdm1b 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 Kdm1b. It may not necessarily be applicable to this product.

NCBI GI #	26986559
NCBI GeneID	218214
NCBI Accession #	NP_758466.1
UniProt Primary Accession #	Q8CIG3
UniProt Secondary Accession #	Q8C5C4; Q8CEC1
UniProt Related Accession #	Q8CIG3
GenBank Nucleotide #	NM_172262.3
NCBI Official Full Name	lysine-specific histone demethylase 1B
NCBI Official Synonym Full Names	lysine (K)-specific demethylase 1B

NCBI Official Symbol	Kdm1b
NCBI Official Synonym Symbols	Aof1; AI482520; 4632428N09Rik
UniProt Protein Name	Lysine-specific histone demethylase 1B
UniProt Synonym Protein Names	Flavin-containing amine oxidase domain-containing protein 1; Lysine-specific histone demethylase 2
Protein Family	Lysine-specific histone demethylase
UniProt Gene Name	Kdm1b
UniProt Synonym Gene Names	Aof1; Lsd2
NCBI Protein Information	lysine-specific histone demethylase 1B
UniProt Comments for Kdm1b	Histone demethylase that demethylates 'Lys-4' of histone H3, a specific tag for epigenetic transcriptional activation, thereby acting as a corepressor. Required for de novo DNA methylation of a subset of imprinted genes during oogenesis. Acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. Demethylates both mono- and di-methylated 'Lys-4' of histone H3. Has no effect on tri-methylated 'Lys-4', mono-, di- or tri-methylated 'Lys-9', mono-, di- or tri-methylated 'Lys-27', mono-, di- or tri-methylated 'Lys-36' of histone H3, or on mono-, di- or tri-methylated 'Lys-20' of histone H4.
Research Articles on Kdm1b	**1.** reveal a direct role of hypoxia-inducible factor in regulating miRNA biogenesis and consequently activating the miR-215-KDM1B-mediated signaling required for glioma-initiating cells adaptation to hypoxia
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