

LSD1/KDM1A recombinant protein

Recombinant LSD1/KDM1A protein

CATALOG #
AAA59676

HOST
Baculovirus

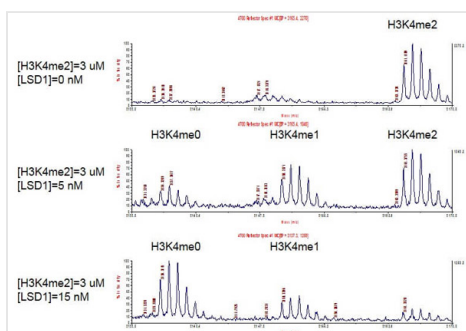
PRODUCT SYNONYMS

LSD1/KDM1A; Recombinant LSD1/KDM1A protein; Lysine Demethylase 1A; Flavin-Containing Amine Oxidase Domain-Containing Protein 2; Lysine-Specific Histone Demethylase 1; LSD1/KDM1A recombinant protein

PRODUCT SPECIFICATIONS

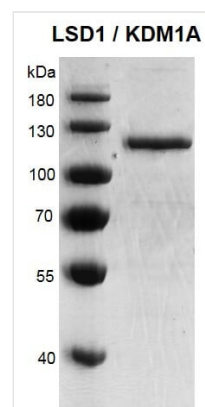
Host	Baculovirus
Purity/Purification	The recombinant protein is >90% pure by SDS-PAGE.
Form/Format	Full length recombinant KDM1A/LSD1 protein was expressed in Sf9 cells and is supplied in 25mM Hepes pH7.5, 300mM NaCl, 10% Glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant LSD1/KDM1A is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. MALDI-TOF for LSD1/KDM1A protein activity 3uM H3K4me2 (1-27aa) peptide was incubated with 5nm and 15nm of LSD1/KDM1A protein in reaction buffer containing 50mM Tris-HCl pH 8.0, 50nm FAD for 1 hr at room temperature. Single H3K4me2 peptide was used as negative control. MALDI-TOF was used for detection.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

MALDI-TOF for LSD1 / KDM1A protein activity 3 uM H3K4me2 (1-27aa) peptide was incubated with 5 nM and 15 nM of LSD1 / KDM1A protein in reaction buffer containing 50 mM Tris-HCl pH 8.0, 50 nM FAD for 1 hr at room temperature. Single H3K4me2 peptide was used as negative control. MALDI-TOF was used for detection.



SDS-PAGE

Recombinant LSD1 / KDM1A protein gel. LSD1 / KDM1A protein was run on a 8% SDS-PAGE gel and stained with Coomassie blue. MW: 110 kDa Purity: > 91%

ADDITIONAL INFORMATION

Related Product Information for LSD1/KDM1A recombinant protein	Short Description: Recombinant LSD1/KDM1A (accession number NP_055828) was expressed in Sf9 cells and contains an N-terminal DYKDDDDK tag with a molecular weight of 97.1 kDa. LSD1 (Lysine-specific demethylase 1, also designated KDM1A) was identified as a subunit of different complexes (such as CTBP, CoREST, NuRD or BRAF35). LSD1 is involved in transcriptional repression of genes through the demethylation of Histone H3 monomethyl Lys4 and Histone H3 dimethyl Lys4, a methylation site associated with transcriptional activation. LSD1 is also involved in transcriptional activation through the demethylation of Histone H3 monomethyl Lys9 and Histone H3 dimethyl Lys9, a modification often associated with transcriptional repression. LSD1 is also able to demethylate Lys370me1 and Lys370me2 in the regulatory domain of the tumor suppressor p53. LSD1 is a flavin-dependent amine oxidase. Recombinant LSD1/KDM1A can be used to study enzyme kinetics and perform inhibitor screening. Background: LSD1 (Lysine-specific demethylase 1, also designated KDM1A) was identified as a subunit of different complexes (such as CTBP, CoREST, NuRD or BRAF35). LSD1 is involved in transcriptional repression of genes through the demethylation of Histone H3K4me1 and Histone H3K4me2, a methylation site associated with transcriptional activation. LSD1 is also involved in transcriptional activation through the demethylation of Histone H3K9me1 and Histone H3K9me2, a modification often associated with transcriptional repression. LSD1 is also able to demethylate Lys370me1 and Lys370me2 in the regulatory domain of the tumor suppressor p53. LSD1 is a flavin-dependent amine oxidase.
Product Categories/Family for LSD1/KDM1A recombinant protein	Recombinant Proteins; Histone Demethylase (HDM)

NCBI AND UNIPROT INFORMATION

Molecular Weight	Molecular weight of 110kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/lsd1/kdm1a-recombinant-protein-baculovirus/59676>