

JMJD2D/KDM4D recombinant protein

Recombinant JMJD2D/KDM4D protein

CATALOG #
AAA59696

HOST
Baculovirus

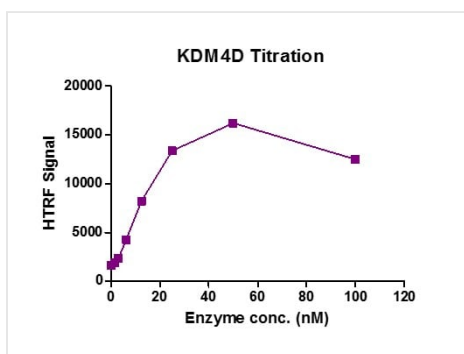
PRODUCT SYNONYMS

JMJD2D/KDM4D; Recombinant JMJD2D/KDM4D protein; Lysine Demethylase 4D; Jumonji Domain-Containing Protein 2D; JHDM3D; JMJD2D/KDM4D recombinant protein

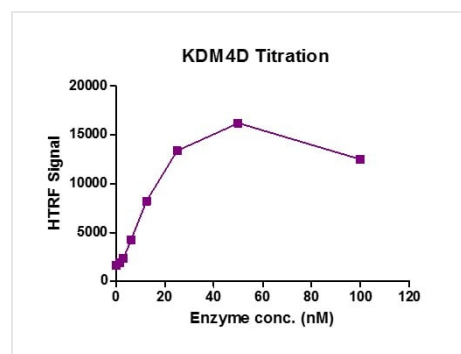
PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	The recombinant protein is >60% pure by SDS-PAGE.
Form/Format	Full length recombinant JMJD2D/KDM4D protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 5% glycerol, 0.04% Triton X-100, 0.2mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant JMJD2D/KDM4D is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Histone Demethylase Assay Conditions: 50mM HEPES pH 7.5, 0.02% Triton X100, 100uM 2OG, 100uM Ascorbate, 50uM (NH ₄) ₂ Fe(SO ₄) ₂ ·6H ₂ O, 1mM TCEP, 100nm Recombinant JMJD2D/KDM4D protein, and 3.3uM H3K9me3 (aa 1-21) peptide at 2 hours at room temperature. 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

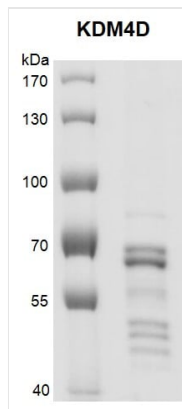


Application Data

Recombinant JMJD2D / KDM4D activity using AlphaLISA. JMJD2D / KDM4D was used in an AlphaLISA assay to determine enzyme titration. An IC₅₀ dose response assessment of reference compounds 2,4-PDCA and N-OG is shown. This data was generated and kindly provided courtesy of ChemPartner.


Application Data

MALDI-TOF Assay for JMJD2D / KDM4D activity . 3.3 uM H3K9me3 peptide was incubated with 100 nM JMJD2D / KDM4D in reaction buffer for 2 hours at room temperature. The reaction product was detected by MALDI-TOF. Single 3.3 uM H3K9me3 peptide was used as a negative control. Catalytic Ability: >66 turnovers / enzyme molecule.



SDS-PAGE

Recombinant JMJD2D / KDM4D protein gel. JMJD2D / KDM4D protein was run on an SDS-PAGE gel and stained with Coomassie Blue.

ADDITIONAL INFORMATION

Related Product Information for JMJD2D/KDM4D recombinant protein	Short Description: Recombinant JMJD2D/KDM4D (accession number NP_060509.2) was expressed in Sf9 cells and contains an N-terminal DYKDDDDK tag with an observed molecular weight of 63.2 kDa. KDM4D (lysine (K)-specific demethylase 4D), also known as JMJD2D (Jumonji Domain Containing 2D) is a protein that functions as a histone demethylase that preferentially demethylates di- and trimethylated lysine 9 residues of histone H3, while it has no activity on monomethylated H3K9 residues. Recombinant JMJD2D/KDM4D can be used for enzyme kinetics and inhibitor screening studies. Background: KDM4D (lysine (K)-specific demethylase 4D), also known as JMJD2D (Jumonji Domain Containing 2D) is a protein that functions as a histone demethylase that preferentially demethylates di- and trimethylated lysine 9 residues of histone H3, while it has no activity on monomethylated H3K9 residues.
Product Categories/Family for JMJD2D/KDM4D recombinant protein	Recombinant Proteins; Histone Demethylase (HDM)

NCBI AND UNIPROT INFORMATION

NCBI GI #	39653317
NCBI GeneID	55693
NCBI Accession #	NP_060509.2
NCBI GenBank Nucleotide #	NM_018039.2
UniProt Accession #	Q6B0I6 ; Q0VF39 ; Q9NT41 ; Q9NW76 ; B3KPC4
Molecular Weight	58,603 Da
NCBI Official Full Name	lysine-specific demethylase 4D
NCBI Official Synonym Full Names	lysine (K)-specific demethylase 4D
NCBI Official Symbol	KDM4D
NCBI Official Synonym Symbols	JMJD2D
NCBI Protein Information	lysine-specific demethylase 4D; jumonji domain containing 2D; jumonji domain-containing protein 2D; jmjC domain-containing histone demethylation protein 3D
UniProt Protein Name	Lysine-specific demethylase 4D
UniProt Gene Name	KDM4D
UniProt Synonym Gene Names	JHDM3D; JMJD2D
UniProt Entry Name	KDM4D_HUMAN

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/kdm4d-recombinant-protein-baculovirus/59696>