

JMJD2C/KDM4C recombinant protein

Recombinant JMJD2C/KDM4C protein

CATALOG #
AAA59695

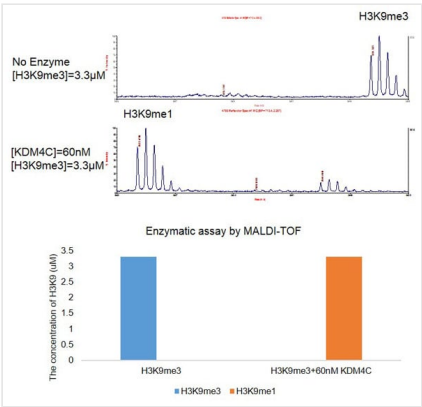
HOST
Baculovirus

PRODUCT SYNONYMS

JMJD2C/KDM4C; Recombinant JMJD2C/KDM4C protein; Lysine Demethylase 4C; Jumonji Domain-Containing Protein 2C; JHDM3C;; JMJD2C/KDM4C recombinant protein

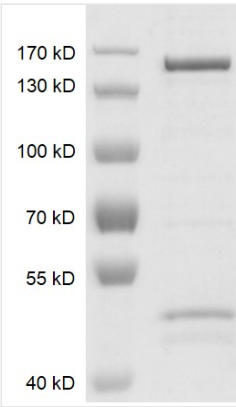
PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	The recombinant protein is >95% pure by SDS-PAGE.
Form/Format	Recombinant JMJD2C/KDM4C protein is supplied at a concentration of 0.4ug/ul in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 5% glycerol, 0.04% Triton X-100, 0.2mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Notes	Recombinant JMJD2C/KDM4C is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling Histone Demethylase Assay Conditions: 1uM H3K9me3 peptide was incubated with different concentrations of JMJD2C/KDM4C protein in 10ul reaction system containing 50mM HEPES-NaOH pH 7.5, 1mM TCEP, 50uM 2-OG, 50uM Ascorbate, 25uM (NH4)2Fe(SO4)2·6H2O for 1 hour, then 10ul H3K9me2 antibody and SA-XL665 mixture (1:100 dilution in HTRF Detection Buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay 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



Application Data

JMJD2C / KDM4C activity assay. 1 μM H3K9me3 peptide was incubated with different concentrations of JMJD2C / KDM4C protein in 10 μl reaction system containing 50 mM HEPES-NaOH pH 7.5, 1 mM TCEP, 50 μM 2-OG, 50 μM Ascorbate, 25 μM (NH₄)₂Fe(SO₄)₂·6H₂O for 1 hour, then 10 μl H3K9me2 antibody and SA-XL665 mixture (1:100 dilution in HTRF Detection Buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



SDS-PAGE

Recombinant JMJD2C / KDM4C protein gel. JMJD2C / KDM4C protein was run on an 8% SDS-PAGE gel and stained with Coomassie Blue. MW: 126.1 kDa Purity: > 90%

ADDITIONAL INFORMATION

Related Product Information for JMJD2C/KDM4C recombinant protein	Short Description: Recombinant JMJD2C/KDM4C (accession number NP_055876.2) was expressed in Sf9 cells and contains an N-terminal DYKDDDDK tag with an observed molecular weight of 124.1 kDa. KDM4C (lysine (K)-specific demethylase 4C), also known as JMJD2C (Jumonji Domain Containing 2C) is a nuclear protein that functions as a trimethylation-specific histone demethylase that preferentially demethylates trimethylated lysine 9 (K9me3) and lysine 36 (K36me3) residues of histone H3, converting these trimethylated histone residues to dimethylated form. KDM4C has no activity for mono- and dimethylated H3K9 and H3K36. Chromosomal aberrations and overexpression of KDM4C are associated with esophageal squamous cell carcinoma. KDM4C regulates colonosphere formation in colorectal cancers by mediating the crosstalk between Wnt and Notch signaling pathways. Recombinant JMJD2C/KDM4C can be used for enzyme kinetics and inhibitor screening studies. Background: KDM4C (lysine (K)-specific demethylase 4C), also known as JMJD2C (Jumonji Domain Containing 2C) is a nuclear protein that functions as a histone demethylase that preferentially demethylates di- and trimethylated lysine 9 (K9me3) and lysine 36 (K36me3) residues of histone H3, converting these trimethylated histone residues to mono- or dimethylated form. JMJD2C/KDM4C has no activity for monomethylated H3K9 and H3K36. Chromosomal aberrations and overexpression of KDM4C are associated with esophageal squamous cell carcinoma. KDM4C regulates colonosphere formation in colorectal cancers by mediating the crosstalk between Wnt and Notch signaling pathways.
Product Categories/Family for JMJD2C/KDM4C recombinant protein	Recombinant Proteins; Histone Demethylase (HDM)

NCBI AND UNIPROT INFORMATION

Molecular Weight	Molecular weight of 124.1kDa
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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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/jmjd2c/kdm4c-recombinant-protein-baculovirus/59695>