

JMJD3/KDM6B recombinant protein

Recombinant JMJD3/KDM6B (1043-1682) protein

CATALOG #
AAA59730

HOST
Baculovirus

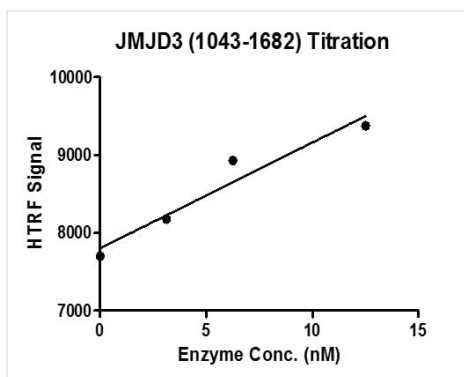
PRODUCT SYNONYMS

JMJD3/KDM6B; Recombinant JMJD3/KDM6B (1043-1682) protein; Jumoni Domain Containing 3 Histone Lysine Demethylase; KDM6B; Lysine Demethylase 6B; JMJD3/KDM6B recombinant protein

PRODUCT SPECIFICATIONS

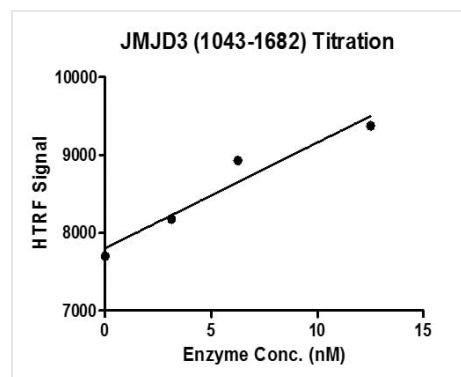
Host	Baculovirus
Form/Format	Recombinant JMJD3/KDM6B (1043-1682) protein is supplied at a concentration of 0.4ug/ul in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 5% glycerol, 0.04% Triton X-100, 0.2mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant JMJD3/KDM6B (1043-1682) is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. HDM Activity Assay Conditions: 1uM H3K27me3 peptide was incubated with different concentrations of JMJD3 (1043- 1682) protein in 10ul reaction system containing 50mM HEPES-NaOH pH 7.4, 0.02% Triton X-100, 1mM TCEP, 50uM 2-OG, 50uM Ascorbate and 25uM (NH4)2Fe(SO4)2·6H2O for 2 hours, then 10 micro;l H3K27me2 antibody and SA-XL665 mixture (each 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

IMAGES



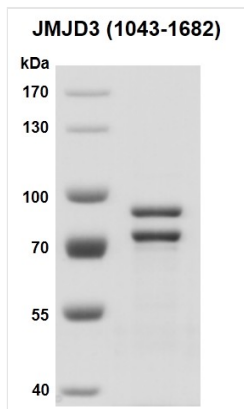
Application Data

HTRF assay for JMJD3 / KDM6B (1043-1682) activity. 1 uM histone H3K27me3 peptide was incubated with JMJD3 (1043-1682) protein in reaction buffer for 2 hours at room temperature. Reaction products were detected with H3K27me2 antibody.



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SDS-PAGE
 Recombinant JMJD3 / KDM6B (1043-1682) SDS-PAGE gel. Recombinant JMJD3 was run on an 8% SDS-PAGE gel and stained with Coomassie Blue. MW: 73.4 kDa Purity: > 90%

ADDITIONAL INFORMATION

Related Product Information for JMJD3/KDM6B recombinant protein	Short Description: Recombinant JMJD3/KDM6B (1043-1682) includes amino acids 1043-1682 of human JMJD3/KMD6B protein (accession number NP_001073893.1); it was expressed in a baculovirus expression system and contains a C-terminal DYKDDDDK-Tag with a molecular weight of 73.4 kDa. The recombinant protein is >= 90% pure by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: JMJD3/KDM6B (Jumonji domain-containing protein 3 lysine (K)-specific demethylase 6B) is a histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby, playing a central role in histone code. JMJD3 demethylates trimethylated and dimethylated H3 'Lys-27'. It plays a central role in regulation of posterior development by regulating HOX gene expression. JMJD3/KDM6B is involved in inflammatory response by participating in macrophage differentiation in case of inflammation by regulating gene expression and macrophage differentiation.
Product Categories/Family for JMJD3/KDM6B recombinant protein	Recombinant Proteins; Histone Demethylase (HDM)

NCBI AND UNIPROT INFORMATION

NCBI GI #	122937251
NCBI GeneID	23135
NCBI Accession #	NP_001073893.1
NCBI GenBank Nucleotide #	NM_001080424.2
UniProt Accession #	O15054; Q96G33; C9IZ40
Molecular Weight	180,702 Da
NCBI Official Full Name	lysine-specific demethylase 6B isoform 1
NCBI Official Synonym Full Names	lysine demethylase 6B
NCBI Official Symbol	KDM6B
NCBI Official Synonym Symbols	JMJD3
NCBI Protein Information	lysine-specific demethylase 6B
UniProt Protein Name	Lysine-specific demethylase 6B
UniProt Gene Name	KDM6B
UniProt Synonym Gene Names	JMJD3; KIAA0346

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/kdm6b-recombinant-protein-baculovirus/59730>