

JARID1A/KDM5A recombinant protein

Recombinant JARID1A/KDM5A protein

CATALOG #
AAA59679

HOST
Baculovirus

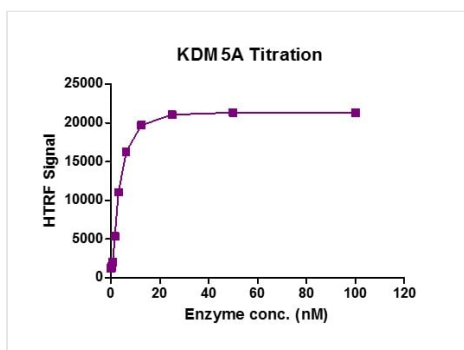
PRODUCT SYNONYMS

JARID1A/KDM5A; Recombinant JARID1A/KDM5A protein; RBP2; RBBP2; RBBP-2; JARID1A/KDM5A recombinant protein

PRODUCT SPECIFICATIONS

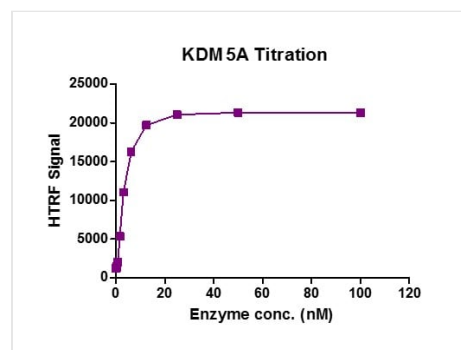
Host	Baculovirus
Purity/Purification	The recombinant protein is >85% pure by SDS-PAGE.
Form/Format	Full length recombinant JARID1A/KDM5A protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	This product was manufactured as described in Protein Details. Where possible, We has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for a given product is shown on the lot-specific Technical Data Sheet.
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 JARID1A / KDM5A protein activity assay. 3 uM H3K4me3 (1-21) peptide was incubated with 100 nM JARID1A / KDM5A in a reaction buffer containing 50 mM HEPES pH 7.5, 0.02% Triton X-100, 100 uM 2-OG, 100 uM ascorbate, 50 uM (NH₄)₂Fe(SO₄)₂·6H₂O for 12 hr. at RT. Then 10 ?l anti-H3K4me2 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.



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SDS-PAGE

Recombinant JARID1A / KDM5A protein gel. JARID1A / KDM5A protein was run on a 10% SDS-PAGE gel and stained with Coomassie Blue. MW: 196 kDa Purity: >60%

ADDITIONAL INFORMATION

Related Product Information for JARID1A/KDM5A recombinant protein

Short Description: Recombinant JARID1A/KDM5A (accession number NP_001036068.1) was expressed in Sf9 and contains an N-terminal DYKDDDDK tag with a molecular weight of 196.3 kDa. Lysine (K)-specific demethylase 5A (KDM5A), also known as Jumonji, AT rich interactive domain 1A (JARID1A), is a histone demethylase that specifically demethylates lysine 4 of histone H3 (H3K4), thereby playing a central role in defining the histone code. KDM5A demethylates trimethylated and dimethylated, but not monomethylated H3K4. It does not demethylate histone H3K9, H3K27, H3K36, H3K79 or H4K20. KDM5A may function to stimulate transcription mediated by nuclear receptors and may be involved in transcriptional regulation of HOX proteins during cell differentiation. Also, KDM5A may be involved in the transcriptional repression of cytokines such as CXCL12. It has been shown to bind directly with the Retinoblastoma (pRb) protein which regulates cell proliferation. KDM5A also interacts with Rhombotin-2 which functions distinctly in erythropoiesis and in T-cell leukemogenesis. Recombinant JARID1A/KDM5A can be used for enzyme kinetics and inhibitor screening studies.

Background: Lysine (K)-specific demethylase 5A (KDM5A), also known as Jumonji, AT rich interactive domain 1A (JARID1A), is a histone demethylase that specifically demethylates lysine 4 of histone H3 (H3K4), thereby playing a central role in defining the histone code. KDM5A demethylates trimethylated and dimethylated, but not monomethylated H3K4. It does not demethylate histone H3K9, H3K27, H3K36, H3K79 or H4K20. KDM5A may function to stimulate transcription mediated by nuclear receptors and may be involved in transcriptional regulation of HOX proteins during cell differentiation. Also, KDM5A may be involved in the transcriptional repression of cytokines such as CXCL12. It has been shown to bind directly with the Retinoblastoma (pRb) protein which regulates cell proliferation. KDM5A also interacts with Rhombotin-2 which functions distinctly in erythropoiesis and in T-cell leukemogenesis.

Product Categories/Family for JARID1A/KDM5A recombinant protein

[Recombinant Proteins](#); [Histone Demethylase \(HDM\)](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	110618244
NCBI GeneID	5927
NCBI Accession #	NP_001036068.1
NCBI GenBank Nucleotide #	NM_001042603
UniProt Accession #	P29375 ; Q4LE72 ; Q86XZ1 ; A8MV76
Molecular Weight	186,289 Da
NCBI Official Full Name	lysine-specific demethylase 5A
NCBI Official Synonym Full Names	lysine demethylase 5A
NCBI Official Symbol	KDM5A

NCBI Official Synonym Symbols	RBP2; RBBP2; RBBP-2
NCBI Protein Information	lysine-specific demethylase 5A
UniProt Protein Name	Lysine-specific demethylase 5A
UniProt Gene Name	KDM5A
UniProt Synonym Gene Names	JARID1A; RBBP2; RBP2; RBBP-2
UniProt Entry Name	KDM5A_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/kdm5a-recombinant-protein-baculovirus/59679>