

JARID1C/KDM5C recombinant protein

Recombinant JARID1C/KDM5C protein

CATALOG # AAA59681	HOST Baculovirus
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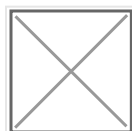
PRODUCT SYNONYMS

JARID1C/KDM5C; Recombinant JARID1C/KDM5C protein; Lysine Demethylase 5C; Jumonji; AT Rich Interactive Domain 1C (RBP2-Like); JARID1C/KDM5C recombinant protein

PRODUCT SPECIFICATIONS

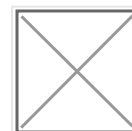
Host	Baculovirus
Form/Format	Full length recombinant JARID1C/KDM5C protein is supplied at a concentration of 0.5ug/ul in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 5% Glycerol, 0.04% Triton X-100, 0.2mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant JARID1C/KDM5C is suitable for use in the study 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 (NH4)2Fe(SO4)2·6H2O, 1mM TCEP, 100nm Recombinant JARID1C/KDM5C protein, and 3.3uM H3K4me3 (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



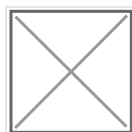
Application Data

HTRF assay for JARID1C / KDM5C activity. 1 uM H3K4me3 peptide was incubated with JARID1C / KDM5C protein in reaction buffer for 1 hour at room temperature.H3K4me2 antibody was used to detect reaction product.



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SDS-PAGE

Recombinant JARID1C / KDM5C protein gel. JARID1C / KDM5C protein was run on a 8% SDS-PAGE gel and stained with Coomassie Blue. MW: 180 kDa Purity: > 87%

ADDITIONAL INFORMATION

Related Product Information for JARID1C/KDM5C recombinant protein	Short Description: Recombinant JARID1C/KDM5C (accession number NP_004178.2) was expressed in Sf9 and contains an N-terminal DYKDDDDK tag with a molecular weight of 180 kDa. Lysine (K)-specific demethylase 5C (KDM5C), also known as Jumonji, AT rich interactive domain 1C (JARID1C), is a member of the SMCY homolog family and encodes a protein with one ARID domain, one JmjC domain, one JmjN domain and two PHD-type zinc fingers. It is a histone demethylase that specifically demethylates lysine 4 of histone H3 (H3K4), thereby playing a central role in defining the histone code. KDM5B demethylates trimethylated and dimethylated, but not monomethylated H3K4. It does not demethylate histone H3K9, H3K27, H3K36, H3K79 or H4K20. KDM5C participates in transcriptional repression of neuronal genes by recruiting histone deacetylases and CoREST pAb at neuron-restrictive silencer elements. Mutations in KDM5C have been associated with X-linked mental retardation. Recombinant JARID1C/KDM5C can be used for enzyme kinetics and inhibitor screening studies. Background: Lysine (K)-specific demethylase 5C (KDM5C), also known as Jumonji, AT rich interactive domain 1C (JARID1C), is a member of the SMCY homolog family and encodes a protein with one ARID domain, one JmjC domain, one JmjN domain and two PHD-type zinc fingers. It is a histone demethylase that specifically demethylates lysine 4 of histone H3 (H3K4), thereby playing a central role in defining the histone code. KDM5B demethylates trimethylated and dimethylated, but not monomethylated H3K4. It does not demethylate histone H3K9, H3K27, H3K36, H3K79 or H4K20. KDM5C participates in transcriptional repression of neuronal genes by recruiting histone deacetylases and CoREST pAb at neuron-restrictive silencer elements. Mutations in KDM5C have been associated with X-linked mental retardation.
Product Categories/Family for JARID1C/KDM5C recombinant protein	Recombinant Proteins; Histone Demethylase (HDM)

NCBI AND UNIPROT INFORMATION

NCBI GI #	109255243
NCBI GeneID	8242
NCBI Accession #	NP_004178.2
NCBI GenBank Nucleotide #	NM_004187.3
UniProt Accession #	P41229; Q5JUX3; Q5JUX4; Q5JUX5; Q7Z5S5; B0QZ44; B4E3I2; F5H3T1
Molecular Weight	175,592 Da
NCBI Official Full Name	lysine-specific demethylase 5C isoform 1
NCBI Official Synonym Full Names	lysine (K)-specific demethylase 5C
NCBI Official Symbol	KDM5C
NCBI Official Synonym Symbols	MRXJ; SMCX; MRX13; MRXSJ; XE169; MRXSCJ; JARID1C; DXS1272E
NCBI Protein Information	lysine-specific demethylase 5C; Smcy homolog, X-linked; Smcx homolog, X chromosome; histone demethylase JARID1C; JmjC domain-containing protein SMCX; Jumonji/ARID domain-containing protein 1C; Jumonji, AT rich interactive domain 1C (RBP2-like)
UniProt Protein Name	Lysine-specific demethylase 5C
UniProt Gene Name	KDM5C
UniProt Synonym Gene Names	DXS1272E; JARID1C; SMCX; XE169
UniProt Entry Name	KDM5C_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.