

Active Recombinant Human KDM5C, FLAG-tagged

Cat. No. KDM5C-45H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KDM5C (accession number NP_004178.2) was expressed in Sf9, with an N-terminal FLAG tag.
Species	Human
Source	Sf9 Cells
Description	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.
Form	40 mM HEPES pH 7.4, 150 mM NaCl and 20% glycerol.
Bio-activity	H3K4me3 demethylase
Molecular Mass	180 kDa
Applications	Enzyme kinetics, inhibitor screening, and selectivity profiling.

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Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	0.85 mg/ml
GENE INFORMATION	
Gene Name	KDM5C lysine (K)-specific demethylase 5C [Homo sapiens]
Official Symbol	KDM5C
Synonyms	KDM5C; lysine (K)-specific demethylase 5C; JARID1C, jumonji, AT rich interactive domain 1C , Jumonji, AT rich interactive domain 1C (RBP2 like) , SMCX, Smcy homolog, X linked (mouse); lysine-specific demethylase 5C; DXS1272E; XE169; protein SmcX; selected cDNA on X; 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); MRXJ; SMCX; MRXSJ; MRXSCJ; JARID1C;
Gene ID	8242
mRNA Refseq	NM_001146702
Protein Refseq	NP_001140174
MIM	314690
UniProt ID	P41229
Chromosome	Xp11.22-p11.21

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Location**Function**

DNA binding; histone demethylase activity (H3-K4 specific); metal ion binding; molecular_function; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; zinc ion binding;

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