Active Recombinant Human KDM4C, FLAG-tagged

Cat. No. KDM4C-51H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KDM4C (accession number NP_055876.2) was expressed in Sf9 cells and contains an N-terminal FLAG tag with an observed molecular weight of 124.1 kDa.
Species	Human
Source	Sf9 Cells
Description	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.
Form	25 mM HEPES, pH 7.5, 150 mM NaCl and 5% glycerol.
Bio-activity	H3K9me3 and H3K36me3 demethylase.
Applications	Enzyme kinetics, inhibitor screening, and selectivity profiling.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -

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	80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	1 mg/ml

GENE INFORMATION

Gene Name	KDM4C lysine (K)-specific demethylase 4C [Homo sapiens]
Official Symbol	KDM4C
Synonyms	KDM4C; lysine (K)-specific demethylase 4C; JMJD2C, jumonji domain containing 2C; lysine-specific demethylase 4C; GASC1; KIAA0780; GASC-1 protein; jumonji domain containing 2C; jumonji domain-containing protein 2C; gene amplified in squamous cell carcinoma 1 protein; JmjC domain-containing histone demethylation protein 3C; JHDM3C; JMJD2C; bA146B14.1; FLJ25949;
Gene ID	23081
mRNA Refseq	NM_001146694
Protein Refseq	NP_001140166
MIM	605469
UniProt ID	Q9H3R0
Chromosome Location	9p24-p23
Pathway	Coregulation of Androgen receptor activity, organism-specific biosystem;

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Function	androgen receptor binding; enzyme binding; histone demethylase activity (H3-K9 specific); histone demethylase activity (H3-K9 specific); metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; zinc ion binding;

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