Recombinant Human Lysine (K)-specific Demethylase 4C, GST-tagged

Cat. No. KDM4C-428H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human JMJD2C (amino-acids 2-372), with N-terminal GST tag expressed in a*Baculovirus infected Sf9*cell expression system. MW = 69 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	2-372 a.a.
Description	Lysine-specific demethylase 4C is an enzyme that in humans is encoded by the KDM4C gene. This gene is a member of the Jumonji domain 2 (JMJD2) family and encodes a protein with one JmjC domain, one JmjN domain, two PHD-type zinc fingers, and two Tudor domains. This nuclear protein functions as a trimethylation-specific demethylase, converting specific trimethylated histone residues to the dimethylated form. Chromosomal aberrations and increased transcriptional expression of this gene are associated with esophageal squamous cell carcinoma.
Purity	>80%.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 30% glycerol, and 3 mM DTT.

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Stability	>6 months at –80°C.

GENE INFORMATION

Gene Name	KDM4C lysine (K)-specific demethylase 4C [Homo sapiens]
Synonyms	KDM4C; lysine (K)-specific demethylase 4C; GASC1; JHDM3C; JMJD2C; FLJ25949; KIAA0780; bA146B14.1; jumonji domain containing 2C; gene amplified in squamous cell carcinoma 1; JmjC domain-containing histone demethylation protein 3C; EC 1.14.11.-
Gene ID	23081
mRNA Refseq	NM_001146694
Protein Refseq	NP_001140166
MIM	605469
UniProt ID	Q9H3R0
Chromosome Location	9p24.1
Function	iron ion binding; molecular_function; oxidoreductase activity; oxidoreductase activity, acting on single donors with; incorporation of molecular oxygen, incorporation of two atoms of oxygen; protein binding; zinc ion binding

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