Recombinant Human KDM5C, GST-tagged

Cat. No. KDM5C-7032H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KDM5C (1-671) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-671 aa
Description	KDM5C or lysine (K)-specific demethylase 5C is a member of the SMCY homolog family that encodes a protein with one ARID domain, one JmjC domain, one JmjN domain and two PHD-type zinc fingers.KDM5C is mainly expressed in brain and skeletal muscle. KDM5C is involved in the regulation of transcription and chromatin remodelling that cause X-linked mental retardation. KDM5C is also essential for spermatogenesis and expression of male-specific minor histocompatibility antigens.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~118 kDa
Purity	>80%
Applications	Western Blot

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Storage	Store at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 μg/μl

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 Location	Xp11.22-p11.21

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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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