

Active Recombinant Human PHF8, FLAG-tagged

Cat. No. PHF8-61H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PHF8 (accession number NP_055922.1) was expressed in Sf9 and contains an N-terminal FLAG tag with a molecular weight of 121.1 kDa.
Species	Human
Source	Sf9 Cells
Description	PHF8 (PHD finger protein 8), also known as Lysine (K)-specific demethylase 7B (KDM7B) and JmjC domain-containing histone demethylation protein 1D-B (JHDM1DB), is a member of the JmjC-containing (Jumonji-C) class of histone demethylase proteins that are involved in the regulation of genome function through the removal of methyl groups from histones. PHF8 has two N-terminal domains, a PHD finger that binds trimethylated lysine 4 of histone H3 (H3K4me3) and a Jumonji domain that demethylates monomethylated H3 Lys9 (H3K9me1), Histone H3 dimethyl Lys9 (H3K9me2), Histone H3 dimethyl Lys27 (H3K27me2) (which are all modifications associated with transcriptional repression) and also Histone H3 dimethyl Lys36 (H3K36me2).
Form	20 mM Tris-HCl pH 7.4, 150 mM NaCl and 20% glycerol.
Bio-activity	H3K9me2, H3K36me2 and H4K20me1 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 0.2 mg/ml

GENE INFORMATION

Gene Name PHF8 PHD finger protein 8 [Homo sapiens]

Official Symbol PHF8

Synonyms PHF8; PHD finger protein 8; histone lysine demethylase PHF8; JHDM1F; jumonji C domain containing histone demethylase 1F; KIAA1111; ZNF422; jumonji C domain-containing histone demethylase 1F; MRXSSD; DKFZp686E0868;

Gene ID [23133](#)

mRNA Refseq [NM_001184896](#)

Protein Refseq [NP_001171825](#)

MIM [300560](#)

UniProt ID [Q9UPP1](#)

Chromosome Location Xp11.22

Function chromatin binding; histone demethylase activity; histone demethylase activity (H3-K27 specific); histone demethylase activity (H3-K36 specific); histone demethylase activity (H3-K9 specific); histone demethylase activity (H4-K20 specific); iron ion

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binding; metal ion binding; methylated histone residue binding; 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; protein binding; zinc ion binding;

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