Recombinant Human KDM4D Protein, His-tagged

Cat. No. KDM4D-124H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active recombinant N-terminal His-tagged human KDM4D protein was expressed in E. coli.
Species	Human
Source	E.coli
Description	Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys-20'. Demethylates both di- and trimethylated H3 'Lys-9' residue, while it has no activity on monomethylated residues. Demethylation of Lys residue generates formaldehyde and succinate.
Molecular Mass	42.7 kDa
Purity	≥75% estimated by SDS-PAGE
Unit Definition	One unit of activity is defined as the amount of enzyme required to produce 1 nmol of for maldehyde at 37 centigrade in 50mM HEPES, pH7.4, containing 0.05% Tween 20, 0.1 mM sodium L-ascorbate, 10 μM ferrous ammonium sulfate, 0.5 mM NAD+ and 50 μM disodium oxoglutarate.
Stability	≥ 6 months
Storage	At -80 centigrade.

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Storage Buffer	A solution in 50 mM HEPES, pH 7.4, with 150 mM sodium chloride and 20% glycerol

GENE INFORMATION

Gene Name	KDM4D lysine demethylase 4D [Homo sapiens (human)]
Official Symbol	KDM4D
Synonyms	KDM4D; lysine demethylase 4D; JMJD2D; lysine-specific demethylase 4D; [histone H3]-trimethyl-L-lysine(9) demethylase 4D; jmjC domain-containing histone demethylation protein 3D; jumonji domain containing 2D; jumonji domain-containing protein 2D; lysine (K)-specific demethylase 4D; EC 1.14.11.66
Gene ID	55693
mRNA Refseq	NM_018039
Protein Refseq	NP_060509
MIM	609766
UniProt ID	Q6B0I6

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