

Active Recombinant Human KDM1A protein

Cat. No. KDM1A-48H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KDM1A(158–end) was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a nuclear protein containing a SWIRM domain, a FAD-binding motif, and an amine oxidase domain. This protein is a component of several histone deacetylase complexes, though it silences genes by functioning as a histone demethylase. Alternative splicing results in multiple transcript variants.
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 1 mM DTT, 1 mM EDTA, 0.05% Tween-20, and 20% glycerol.
Bio-activity	≥20.6 pmol/min/μg
Molecular Mass	77.9 kDa
AA Sequence	GPLGSPEFAPPEEENESEPEEPSGVEGAAFQSRLPHDRMTSQEAACFPDIISGPQQ TQKVFLFIRNRTLQLWLDN PKIQLTFEATLQQLEAPYNSDTVLVHRVHSYLERHGLIN FGIYKRIKPLPTKKTGKVIIGSGVSGLAARQLQ SFGMDVTLLCARDRVGGGRVATFR KGNVADLGAMVVTGLGGNPMVVSQVNMELAKIKQKCPLYEANGQAVPKE KDE MVEQEFNRLLEATSYLSHQLDNFVNLNNKPVSLGQALEVVIQLQEKHVKDEQIEHWKK IVKTQEELKELLNK MVNLKEKIKELHQQYKEASEVKPPRDITAEFLVSKHRDLTALC KEYDELAETQGKLEELQLEANPPSDVYL SSRDRQILDWHFANLEFANATPLSTLS

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LKHWDQDDDFEFTGSHLTVRNGYSCVPVALAEGLDIKLNTAVRQVRYT ASGCEVIA
VNTRSTSQTFIYKCAVLCTLPLGVLKQQPPAVQFVPPLEWKTSAVQRMGFGNLN
KVVLCFDRVF WDPSVNLFGHVGSTTASRGELFLFWNLYKAPILLALVAGEAAGIMEN
ISDDVIVGRCLAILKGIFGSSAVPQPK ETVVSRWRADPWARGSYSYVAAGSSGNDY
DLMAQPITPGPSIPGAPQPIRLFFAGEHTIRNYPATVHGALLSGL REAGRIADQFLG
AMYTLPRQATPGVPAQQSPSM

Purity	≥90%
Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Storage	>6 months at –80 centigrade.
Concentration	0.3 mg/ml

GENE INFORMATION

Gene Name	KDM1A lysine (K)-specific demethylase 1A [Homo sapiens]
Official Symbol	KDM1A
Synonyms	KDM1A; lysine (K)-specific demethylase 1A; amine oxidase (flavin containing) domain 2 , AOF2, KDM1, lysine (K) specific demethylase 1; lysine-specific histone demethylase 1A; BHC110; KIAA0601; LSD1; lysine (K)-specific demethylase 1; BRAF35-HDAC complex protein BHC110; lysine-specific histone demethylase 1; amine oxidase (flavin containing) domain 2; FAD-binding protein BRAF35-HDAC complex, 110 kDa subunit; flavin-containing amine oxidase domain-containing protein 2; AOF2; KDM1;
Gene ID	23028

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mRNA Refseq	NM_015013
Protein Refseq	NP_055828
MIM	609132
UniProt ID	O60341
Chromosome Location	1p36.12
Pathway	Coregulation of Androgen receptor activity, organism-specific biosystem; Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Hemostasis, organism-specific biosystem; Notch signaling pathway, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem;
Function	MRF binding; androgen receptor binding; chromatin binding; demethylase activity; enzyme binding; flavin adenine dinucleotide binding; histone demethylase activity; histone demethylase activity (H3-K4 specific); histone demethylase activity (H3-K9 specific); histone demethylase activity (H3-dimethyl-K4 specific); ligand-dependent nuclear receptor transcription coactivator activity; oxidoreductase activity; p53 binding; protein binding; transcription factor binding; transcription regulatory region DNA binding;

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