

## Active Recombinant Human KDM1A protein

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human KDM1A(158–end) was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	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.
<b>Bio-activity</b>	≥20.6 pmol/min/μg
<b>Molecular Mass</b>	77.9 kDa
<b>AA Sequence</b>	<p>GPLGSPEFAPPEEENESEPEEPSGVEGAAFQSRLPHDRMTSQEAACFPDIISGPQQ  TQKVFLFIRNRTLQLWLDN PKIQLTFEATLQQLEAPYNSDTVLVHRVHSYLERHGLIN  FGIYKRIKPLPTKKTGKVIIGSGVSLAAARQLQ SFGMDVTLLEARDRVGGRRVATFR  KGNVADLGAMVVTGLGGNPMVVSQVNMELAKIKQKCPLYEANGQAVPKE KDE  MVEQEFNRLLEATSYSLSHQLDNFVNLNKPVSLGQALEVVIQLQEKHVKDEQIEHWKK  IVKTQEELKELLNK MVNLKEKIKELHQQYKEASEVKPPRDITAEFLVSKHRDLTALC  KEYDELAETQGKLEEKLQELEANPPSDVYL SSRDRQILDWHFANLEFANATPLSTLS</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LKHWDQDDDFEFTGSHLTVRNGYSCVPVALAEGLDIKLNTAVRQVRYT ASGCEVIA  
 VNTRSTSQTFIYKCAVLCTLPLGVLKQQPPAVQFVPPLEWKTSAVQRMGFGNLN  
 KVVLCFDRVF WDPSVNLFGHVGSTTASRGELFLFWNLYKAPILLALVAGEAAGIMEN  
 ISDDVIVGRCLAILKGIFGSSAVPQPK ETVVSRWRADPWARGSYSYVAAGSSGNDY  
 DLMAQPITPGPSIPGAPQPIPRLLFFAGEHTIRNYPATVHGALLSGL REAGRIADQFLG  
 AMYTLPRQATPGVPAQQSPSM

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

## GENE INFORMATION

<b>Gene Name</b>	KDM1A lysine (K)-specific demethylase 1A [ Homo sapiens ]
<b>Official Symbol</b>	KDM1A
<b>Synonyms</b>	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;
<b>Gene ID</b>	23028

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>mRNA Refseq</b>	NM_015013
<b>Protein Refseq</b>	NP_055828
<b>MIM</b>	609132
<b>UniProt ID</b>	O60341
<b>Chromosome Location</b>	1p36.12
<b>Pathway</b>	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;
<b>Function</b>	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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA