

Recombinant Human KDM2A Protein (R567-S681), His tagged

Cat. No. KDM2A-0528H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human 6His-TEV-KDM2A(R567-S681) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	R567-S681
Description	<p>Histone demethylase that specifically demethylates 'Lys-36' of histone H3, thereby playing a central role in histone code. Preferentially demethylates dimethylated H3 'Lys-36' residue while it has weak or no activity for mono- and tri-methylated H3 'Lys-36'. May also recognize and bind to some phosphorylated proteins and promote their ubiquitination and degradation. Required to maintain the heterochromatic state.</p> <p>Associates with centromeres and represses transcription of small non-coding RNAs that are encoded by the clusters of satellite repeats at the centromere. Required to sustain centromeric integrity and genomic stability, particularly during mitosis.</p> <p>Regulates circadian gene expression by repressing the transcriptional activator activity of CLOCK-ARNTL/BMAL1 heterodimer and RORA in a catalytically-independent manner.</p>
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	KDM2A lysine (K)-specific demethylase 2A [Homo sapiens (human)]
Official Symbol	KDM2A
Synonyms	KDM2A; lysine (K)-specific demethylase 2A; F box and leucine rich repeat protein 11, FBXL11; lysine-specific demethylase 2A; CXXC8; DKFZP434M1735; F box protein FBL11; FBL7; FBL11; FLJ00115; JHDM1A; jumonji C domain containing histone demethylase 1A; KIAA1004; LILINA; F-box/LRR-repeat protein 11; CXXC-type zinc finger protein 8; [Histone-H3]-lysine-36 demethylase 1A; F-box and leucine-rich repeat protein 11; jumonji C domain-containing histone demethylase 1A; jmjC domain-containing histone demethylation protein 1A; FBXL11; FLJ46431; DKFZp434M1735;
Gene ID	22992
mRNA Refseq	NM_001256405

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Protein Refseq NP_001243334

MIM 605657

UniProt ID Q9Y2K7

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