Recombinant Human KDM5A Protein (437-603 aa), His-tagged

Cat. No. KDM5A-1432H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KDM5A Protein (437-603 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Transcription. Protein Description: Partial.
Species	Human
Source	Yeast
ProteinLength	437-603 aa
Description	Histone dethylase that specifically dethylates 'Lys-4' of histone H3, thereby playing a central role in histone code. Does not dethylate histone H3 'Lys-9', H3 'Lys-27', H3 'Lys-36', H3 'Lys-79' or H4 'Lys-20'. Dethylates trimethylated and dimethylated but not monomethylated H3 'Lys-4'. May stimulate transcription mediated by nuclear receptors. May be involved in transcriptional regulation of Hox proteins during cell differentiation. May participate in transcriptional repression of cytokines such as CXCL12. Plays a role in the regulation of the circadian rhythm and in maintaining the normal periodicity of the circadian clock. In a histone dethylase-independent manner, acts as a coactivator of the CLOCK-ARNTL/BMAL1-mediated transcriptional activation of PER1/2 and other clock-controlled genes and increases histone acetylation at PER1/2 promoters by inhibiting the activity of HDAC1.
Form	Tris-based buffer,50% glycerol
Molecular Mass	21.3 kDa

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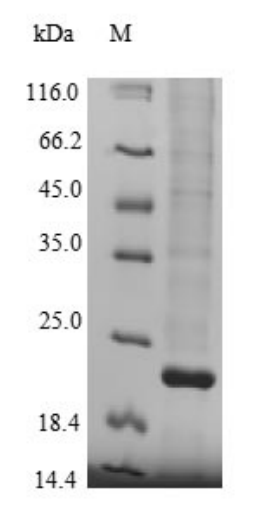
AA Sequence	EYALSGWNLNNMPVLEQSVLAHINVDISGMKVPWLYVGMCFSSFCWHIEDHWSYSI NYLHWGEPKTWYGVPSHAAEQLEEVMRELAPELFESQPDLLHQLVTIMNPNVLMEH GVPVYRTNQCAGEFVVTFPRAYHSGFNQGYNFAEAVNFCTADWLPIGRQCVNHYR
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	KDM5A lysine (K)-specific demethylase 5A [Homo sapiens]
Official Symbol	KDM5A
Synonyms	KDM5A; RBP2; RBBP2; RBBP-2; JARID1A;
Gene ID	5927
mRNA Refseq	NM_001042603
Protein Refseq	NP_001036068
MIM	180202

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UniProt ID	P29375



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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