Recombinant human Lysine-specific demethylase 5A

Catalog No: #AP72635

Package Size: #AP72635-1 20ug #AP72635-2 100ug #AP72635-3 1mg

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Description

Product Name	Recombinant human Lysine-specific demethylase 5A
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:437-603aaSequence Info:Partial
Other Names	Histone demethylase JARID1AJumonji,ARID domain-containing protein 1ARetinoblastoma-binding protein 2 ;RBBP-2
Accession No.	P29375
Uniprot	P29375
GeneID	5927;
Calculated MW	21.3 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	EYALSGWNLNNMPVLEQSVLAHINVDISGMKVPWLYVGMCFSSFCWHIEDHWSYSINYLHWGEPKTWYGVP SHAAEQLEEVMRELAPELFESQPDLLHQLVTIMNPNVLMEHGVPVYRTNQCAGEFVVTFPRAYHSGFNQGYN FAEAVNFCTADWLPIGRQCVNHYR
Formulation	Tris-based buffer50% glycerol
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°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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 .

References

Characterization of the retinoblastoma binding proteins RBP1 and RBP2.Fattaey A.R., Helin K., Dembski M.S., Dyson N., Harlow E., Vuocolo G.A., Hanobik M.G., Haskell K.M., Oliff A., Defeo-Jones D., Jones R.E.Oncogene 8:3149-3156(1993)Research Topic:Transcription

Note: This product is for in vitro research use only