

Recombinant Mouse Kat5 Protein, Myc/DDK-tagged

Cat. No. Kat5-3460M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length HIV-1 tat interactive protein, homolog (human) (cDNA clone MGC:117972 IMAGE:4011689), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Catalytic subunit of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome-DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage. Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AZ1 from the nucleosome. Also acetylates non-histone proteins, such as ATM, NR1D2, RAN, FOXP3, ULK1 and RUBCNL/Pacer. Directly acetylates and activates ATM. Relieves NR1D2-mediated inhibition of APOC3 expression by acetylating NR1D2. Promotes FOXP3 acetylation and positively regulates its transcriptional repressor activity. Acetylates RAN at 'Lys-134'. Together with GSK3 (GSK3A or GSK3B), acts as a regulator of autophagy: phosphorylated at Ser-86 by GSK3 under starvation conditions, leading to activate

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	acetyltransferase activity and promote acetylation of key autophagy regulators, such as ULK1 and RUBCNL/Pacer.
Molecular Mass	55.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Kat5 K(lysine) acetyltransferase 5 [Mus musculus (house mouse)]
Official Symbol	Kat5
Synonyms	Kat5; K(lysine) acetyltransferase 5; Hta; Tip; PLIP; CPLA2; Tip55; Tip60; Htatip; Htatip1; AI839539; histone acetyltransferase KAT5; 60 kDa Tat-interactive protein; HIV-1 tat interactive protein 1, 60 kDa homolog; HIV-1 tat interactive protein 1, homolog; Tat-interactive protein-60; histone acetyltransferase HTATIP; lysine acetyltransferase 5; EC 2.3.1.48
Gene ID	81601
mRNA Refseq	NM_178637

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Protein Refseq	NP_848752
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UniProt ID	Q8CHK4
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