

KAT5 recombinant protein

Recombinant KAT5 protein

CATALOG #
AAA60202

HOST
Baculovirus

PRODUCT SYNONYMS

KAT5; Recombinant KAT5 protein; Lysine Acetyltransferase 5; HIV-1 Tat Interactive Protein; 60kDa; EC 2.3.1.48; KAT5 recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Form/Format	Recombinant KAT5 protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant KAT5 protein is suitable for use in enzyme kinetics, inhibitor screening, and selectivity profiling.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



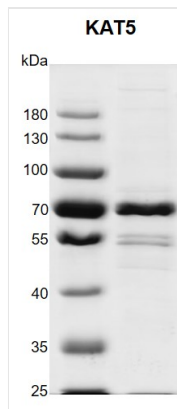
WB (Western Blot)

Western blot for Recombinant KAT5 protein activity 2 ?g Recombinant Mononucleosomes H3.1 were incubated with 0 (-), 25 (+), 50 (++) , 100 (+++) ng Recombinant KAT5 protein respectively in reaction buffer containing 50 mM Tris-HCl pH 8.6, 0.02% Triton X-100, 2 mM MgCl₂, 1 mM TCEP and 20 uM acetyl-CoA for 2 hr at room temperature. Half of the reactions were run on a 12.5% SDS-PAGE gel and detected with H4ac-pan antibody and H3 antibody . Western blot was used to detect the production of acetylated histone H4. H3 was detected as a loading control.



WB (Western Blot)

Western blot for Recombinant KAT5 protein activity 0.5 ug Histone H4 was incubated with 0 (-), 25 (+), 50 (++) , 100 (+++) ng Recombinant KAT5 protein respectively in reaction buffer containing 50 mM Tris-HCl pH 8.6, 0.02% Triton X-100, 2 mM MgCl₂, 1 mM TCEP and 20 uM acetyl-CoA for 2 hr at room temperature. Half of the reactions were run on a 12.5% SDS-PAGE gel and detected with H4ac-pan antibody . Western blot was used to detect the production of acetylated histone H4.



SDS-PAGE

Recombinant KAT5 protein gel. 10% SDS-PAGE Coomassie staining. MW: 63.1 kDa Purity: >90%

ADDITIONAL INFORMATION

Related Product Information for KAT5 recombinant protein

Short Description: Recombinant KAT5 protein (accession number NP_874369.1) was expressed in a baculovirus expression system as full-length with an N-terminal DYKDDDDK tag. The molecular weight of KAT5 is 63.1 kDa. Recombinant KAT5 protein is suitable for use in enzyme kinetics, inhibitor screening, and selectivity profiling.

Background: KAT5 (Lysine Acetyltransferase 5), also called as TIP60, is a member of the MYST family of histone acetyl transferases. HATs play important roles in regulating chromatin remodeling, transcription and other nuclear processes by acetylating histone and nonhistone proteins. KAT5 is a 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. NuA4 histone acetyltransferase 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. KAT5 is also a component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AZ1 from the nucleosome. Besides, it also acetylates non-histone proteins, such as ATM, NR1D2, RAN, FOXP3, ULK1 and RUBCNL/Pacer.

Product Categories/Family for KAT5 recombinant protein

[Recombinant Proteins](#); [Histone Acetyltransferase \(HAT\)](#); [Transcription](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	332205929
NCBI GeneID	10524
NCBI Accession #	NP_874369.1
NCBI GenBank Nucleotide #	NM_182710
Molecular Weight	56,292 Da
NCBI Official Full Name	Homo sapiens K(lysine) acetyltransferase 5 (KAT5), transcript variant 1, mRNA
NCBI Official Synonym Full Names	K(lysine) acetyltransferase 5
NCBI Official Symbol	KAT5
NCBI Official Synonym Symbols	TIP; ESA1; PLIP; TIP60; cPLA2; HTATIP; ZC2HC5; HTATIP1
NCBI Protein Information	histone acetyltransferase KAT5; 60 kDa Tat-interactive protein; HIV-1 Tat interactive protein, 60kDa; K-acetyltransferase 5; Tat interacting protein, 60kDa; cPLA(2)-interacting protein; cPLA2 interacting protein; histone acetyltransferase HTATIP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/kat5-recombinant-protein-baculovirus/60202>