

KAT1/HAT1 recombinant protein

Recombinant KAT1/HAT1 protein

CATALOG # AAA60201	HOST Baculovirus
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PRODUCT SYNONYMS

KAT1/HAT1; Recombinant KAT1/HAT1 protein; Histone Acetyltransferase 1; EC 2.3.1.48; KAT1/HAT1 recombinant protein

PRODUCT SPECIFICATIONS

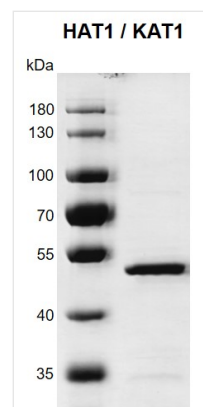
Host	Baculovirus
Form/Format	Recombinant KAT1/HAT1 protein supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant KAT1/HAT1 protein is suitable for use in enzyme kinetics, inhibitor screening, and selectivity 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 KAT1 / HAT1 protein activity. 0.5 ug Histone H4 was incubated with 0 (-), 25 (+), 50 (++) , 100 (+++) ng Recombinant HAT1 / KAT1 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 KAT1 / HAT1 protein gel 10% SDS-PAGE gel with Coomassie blue staining
MW: 50.8 kDa Purity: >90%

ADDITIONAL INFORMATION

Related Product Information for KAT1/HAT1 recombinant protein	Short Description: Full-length KAT1/HAT1 protein (accession number NP_003633.2) was expressed in a baculovirus expression system with an N-terminal DYKDDDDK tag. The molecular weight of KAT1/HAT1 is 50.8 kDa. Recombinant KAT1/HAT1 protein is suitable for use in enzyme kinetics, inhibitor screening, and selectivity profiling. Background: KAT1/HAT1 (Histone Acetyltransferase 1), is a type B histone acetyltransferase that is involved in the rapid acetylation of newly synthesized cytoplasmic histones, which are in turn imported into the nucleus for de novo deposition onto nascent DNA chains. It acetylates soluble but not nucleosomal histone H4 at 'Lys-5' (H4K5ac) and 'Lys-12' (H4K12ac) and, to a lesser extent, acetylates histone H2A at 'Lys-5' (H2AK5ac). It has intrinsic substrate specificity that modifies lysine in recognition sequence GXGKXG. HAT1 may be involved in nucleosome assembly during DNA replication and repair as part of the histone H3.1 and H3.3 complexes. It may also play a role in DNA repair in response to free radical damage.
Product Categories/Family for KAT1/HAT1 recombinant protein	Recombinant Proteins; DNA Damage; Histone Acetyltransferase (HAT)

NCBI AND UNIPROT INFORMATION

Molecular Weight	Molecular weight of KAT1/HAT1 is 50.8kDa
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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.

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Online datasheet: <https://stage.aaabiotech.com/kat1/hat1-recombinant-protein-baculovirus/60201>