

Recombinant Human KAT6A Protein (488-778), N-hFc tagged

Cat. No. KAT6A-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant KAT6A / MOZ (488-778) protein that includes amino acids 488-778 of human KAT6A protein (accession number NP_006757.2) was expressed in a baculovirus expression system and contains an N-terminal FLAG tag. This product is the catalytic domain of KAT6A protein.
Species	Human
Source	Insect Cells
ProteinLength	488-778
Description	This gene encodes a member of the MOZ, YBFR2, SAS2, TIP60 family of histone acetyltransferases. The protein is composed of a nuclear localization domain, a double C2H2 zinc finger domain that binds to acetylated histone tails, a histone acetyl-transferase domain, a glutamate/aspartate-rich region, and a serine- and methionine-rich transactivation domain. It is part of a complex that acetylates lysine-9 residues in histone 3, and in addition, it acts as a co-activator for several transcription factors. Allelic variants of this gene are associated with an autosomal dominant form of cognitive disability. Chromosomal translocations of this gene are associated with acute myeloid leukemia. Alternative splicing results in multiple transcript variants.
Molecular Mass	35.5 kDa
Purity	> 92 %

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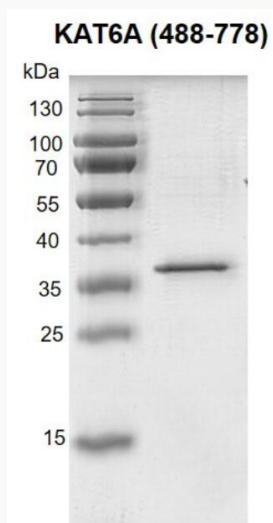
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	0.4 µg/µL
Storage Buffer	25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10 % glycerol, 0.04 % Triton X-100, and 0.5 mM TCEP.
GENE INFORMATION	
Gene Name	KAT6A lysine acetyltransferase 6A [Homo sapiens (human)]
Official Symbol	KAT6A
Synonyms	KAT6A; lysine acetyltransferase 6A; MOZ; ARTHS; MRD32; MYST3; MYST-3; ZNF220; RUNXBP2; ZC2HC6A; histone acetyltransferase KAT6A; K(lysine) acetyltransferase 6A; MOZ, YBF2/SAS3, SAS2 and TIP60 protein 3; MYST histone acetyltransferase (monocytic leukemia) 3; histone acetyltransferase MYST3; monocytic leukemia zinc finger protein; runt-related transcription factor binding protein 2; zinc finger protein 220; EC 2.3.1.48
Gene ID	7994
mRNA Refseq	NM_006766
Protein Refseq	NP_006757
MIM	601408

Histone H3	+	+	+	+	-
KAT6A (488-778)	-	+	++	+++	+++
α -H3ac (pan-acetyl)					

Activity

0.5 μ g Histone H3.1 was incubated with 0 μ g (-), 0.1 μ g (+), 0.2 μ g (++) , 0.4 μ g (+++) KAT6A / MOZ (488-778) protein in a 20 μ L reaction system containing 50 mM Tris-HCl pH 8.6, 2 mM MgCl₂, 1 mM TCEP, 0.02 % Triton X-100 and 20 μ M Acetyl-CoA for 2 hr at RT. Reaction products were detected by Western blot using H3 pan-acetyl antibody.

10 % SDS-PAGE gel with Coomassie staining



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