Recombinant KAT5 protein (His tag)

Catalog Number	543326
Synonyms	60 kDa Tat-interactive protein; Tip60; Histone acetyltransferase HTATIP; HIV-1 Tat interactive protein; Lysine acetyltransferase 5; Protein 2-hydroxyisobutyryltransferase KAT5; Protein acetyltransferase KAT5; Protein crotonyltransferase KAT5; Protein lactyltransferase KAT5; cPLA(2)-interacting protein
Species	Human
Expression System	E. coli
Accession	Q92993
Molecular Weight	Predictes a molecular mass of 35.65 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 36 kDa band.

Product Information

Sequence Region	225-513
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 225-513 aa (Q92993) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Histone Acetyltransferase KAT5 (Fragment 225-513) is a high-purity protein fragment encompassing the catalytic MYST-type HAT domain. This product is engineered for researchers studying chromatin remodeling, transcriptional regulation, and DNA repair mechanisms, providing a targeted tool to investigate acetyltransferase activity and related post-translational modifications in vitro. Histone acetyltransferase KAT5 (Tip60) is the catalytic subunit of the NuA4 complex, essential for acetylating histones H2A and H4 to activate transcription and facilitate DNA double-strand break repair via homologous recombination. It localizes primarily to the nucleus and dynamically associates with chromosomes, kinetochores, and spindle poles during mitosis. Beyond histones, KAT5 acetylates key regulators like ATM, AURKB, and TP53, and exhibits versatile acyltransferase activity—including crotonylation, lactylation, and 2-hydroxyisobutyrylation—impacting processes from autophagy to viral replication. The provided fragment (amino acids 225-513) retains the core MYST-type HAT domain, enabling focused studies on its enzymatic functions and interactions.