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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Product Information

Description:	Recombinant human KAT6B (lysine acetyltransferase 6B) isoform 1, also known as MORF, encompassing amino acids 710-1020. This construct contains the catalytic domain and an N-terminal FLAG-tag. The recombinant protein was affinity purified.
Background:	KAT6B, or Lysine Acetyltransferase 6B, also known as MORF, is a histone acetyltransferase and plays a crucial role in chromatin organization and gene expression regulation by acetylating histones, which impacts DNA accessibility and transcription. It is part of the MOZ/MORF protein complex. KAT6B is involved in various biological processes, including brain development and RUNX2 (Runt-related transcription factor 2)-dependent transcriptional activation 1. Mutations in the KAT6B gene are associated with several rare genetic disorders, primarily affecting neurodevelopment. It is also linked to cancer, with its role as tumor suppressor or oncogene being type dependent. Inhibitors of KAT6A and KAT6B have been developed to block acetylation activity, showing promising clinical trial results in slowing tumor progression of breast cancer patients.
Species:	Human
Construct:	KAT6B (FLAG-710-1020)
Concentration:	0.22 mg/ml
Expression System:	HEK293
Purity:	70%
Format:	Aqueous buffer solution.
Formulated In:	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 100 µg/ml FLAG peptide, and 20% glycerol
MW:	38 kDa
Genbank Accession:	NP_036462.2
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	A 96-well plate was coated with H4 1-21[B] (0.1 µg/well in TBST) at 37°C for 1 hour. The plate was washed three times with TBST, and 200 µl of Superblock in TBS was added for 1 hour at room temperature (RT). After three washes in TBST, a 1:2 serial dilution of KAT6B, FLAG-Tag Recombinant prepared in HAT Assay Buffer (BPS Bioscience #79708), was added and the plate was incubated at RT for 1 hour. Next, 25 µl/well of Acetyl-CoA at 2 µM concentration in 1x HAT Assay Buffer supplemented with 2 µM DTT was added and the plate was incubated at 37°C for 1 hour. The plate was washed three times and incubated with Acetyl-Histone H4 (Lys8) Antibody diluted 1:1000 in Blocking Buffer 4 for 1 hour at RT. The plate was washed three times and incubated with Secondary Antibody 2 (BPS Bioscience #52131H) diluted 1:1000 in Blocking Buffer 4 for 30 min at RT. After three washes, 100 µl of the ELISA ECL Substrate (BPS Bioscience #79670) was added to each well and chemiluminescence was measured.
Applications:	Useful for acetylation assays.

Quality Control Data

