



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Product Information

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b>          | Recombinant human KAT6A (K (lysine) acetyltransferase 6A), also known as MOZ, encompassing amino acids 470-820. This construct contains a N-terminal FLAG-tag. The recombinant protein was affinity purified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Background:</b>           | KAT6A (K (lysine) acetyltransferase 6A), also known as MYST3 or MOZ, is a histone acetyltransferase (HAT) that acetylates lysine residues in histone H3 and histone H4 ( <i>in vitro</i> ). KAT6A is a component of the MOZ (monocytic leukemic zinc finger)/MORF complex with histone H3 acetyltransferase activity. This protein may act as a transcriptional coactivator for RUNX1 (runt-related transcription factor 1) and RUNX2. It also functions to acetylate p53 (encoded by tumor suppressor gene <i>TP53</i> ) and controls its transcriptional activity. Dysregulation of KAT6A is associated with acute myeloid leukemia (AML) as this protein plays crucial roles in hematopoietic stem cells, tumor progression, and developmental delays. KAT6 mutations also result in KAT6A syndrome, also known as ARTHS (Arboleda-Tham Syndrome), a disorder that affects multiple organs. Inhibition of KAT6A with the inhibitor WM-8014 resulted in cellular senescence in a model of hepatocellular carcinoma (HCC). These results open new insights and therapeutic approaches in KAT6A related disorders. |
| <b>Species:</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Construct:</b>            | KAT6A (FLAG-470-820)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration:</b>        | 0.23 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Expression System:</b>    | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity:</b>               | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Format:</b>               | Aqueous buffer solution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Formulated In:</b>        | 40mM Tris, pH 8, 110 mM NaCl, 2.2 mM KCl, 80 ng/μl FLAG peptide, and 20% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MW:</b>                   | 42 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Genbank Accession:</b>    | NP_006757.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Stability:</b>            | At least 6 months at -80°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage:</b>              | -80°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Instructions for Use:</b> | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Applications:</b>         | Useful for SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

Quality Control Data

4-20% SDS-PAGE Coomassie Staining

