HDAC1 Inhibitor Screening Assay Kit

Catalog # KA1320 Size 1 Kit

Applications

Result Data

Result Data

Inhibition of HDAC1 by Trichostatin A. Shown is a typical inhibition curve using this kit. "Veh." Represents compound vehicle control.

Specification

Product Description	HDAC1 Inhibitor Screening Assay Kit is a fluorescence-based method for screening HDAC1 inhibitors.
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at -80°C temporarily. For best results, store the components as described in the protocol.
Note	Result Data Result Data Inhibition of HDAC1 by Trichostatin A. Shown is a typical inhibition curve using this kit. "Veh." Represents compound vehicle control.

Applications

- Functional Study

Gene Info — HDAC1

Entrez GeneID	3065

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Gene Name	HDAC1
Gene Alias	DKFZp686H12203, GON-10, HD1, RPD3, RPD3L1
Gene Description	histone deacetylase 1
Omim ID	601241
Gene Ontology	Hyperlink
Gene Summary	Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histon e deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also in teracts with retinoblastoma tumor-suppressor protein and this complex is a key element in the con trol of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deac etylates p53 and modulates its effect on cell growth and apoptosis. [provided by RefSeq
Other Designations	OTTHUMP00000008745|reduced potassium dependency, yeast homolog-like 1

Publication Reference

- Exploration of Janus Kinase (JAK) and Histone Deacetylase (HDAC) Bispecific Inhibitors Based on the Moiety of Fedratinib for Treatment of Both Hematologic Malignancies and Solid Cancers.

  Qianqian Qiu, Fanglian Chi, Daoguang Zhou, Zhancheng Xie, Yunxiao Liu, Hanyu Wu, Ziyu Yin, Wei Shi, Hai Qian.

  Journal of Medicinal Chemistry 2023 Apr; 66(8):5753.

  Application: Func, Chemical, Chemical

- Anti-Colon Cancer Activity of Novel Peptides Isolated from In Vitro Digestion of Quinoa Protein in Caco-2 Cells.

  Xin Fan, Huimin Guo, Cong Teng, Biao Zhang, Christophe Blecker, Guixing Ren

  Foods 2022 Nov; 11(2):0.

Pathway

- Cell cycle
- Chronic myeloid leukemia
- Notch signaling pathway
- Pathways in cancer

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Disease

- Asthma
- Cognition Disorders
- Genetic Predisposition to Disease
- Huntington disease
- Mental Status Schedule
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms
- Tobacco Use Disorder

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