

# 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

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

## Applications

- Functional Study

## Gene Info — HDAC1

Entrez GeneID

[3065](#)

Gene Name	HDAC1
Gene Alias	DKFZp686H12203, GON-10, HD1, RPD3, RPD3L1
Gene Description	histone deacetylase 1
Omim ID	<a href="#">601241</a>
Gene Ontology	<a href="#">Hyperlink</a>
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 histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates 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

## Pathway

- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [Notch signaling pathway](#)
- [Pathways in cancer](#)

## Disease

- [Asthma](#)
- [Cognition Disorders](#)

- [Genetic Predisposition to Disease](#)
- [Huntington disease](#)
- [Mental Status Schedule](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Tobacco Use Disorder](#)