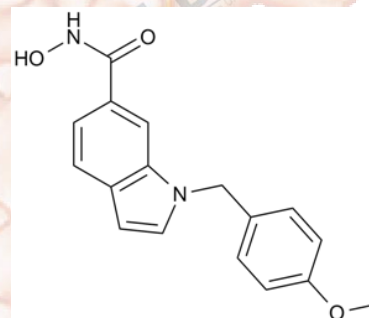


## Product Data Sheet

### PCI-34051

<b>Cat. No.:</b>	A4091
<b>CAS No.:</b>	950762-95-5
<b>Formula:</b>	C <sub>17</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub>
<b>M.Wt:</b>	296.32
<b>Synonyms:</b>	PCI34051, PCI 34051
<b>Target:</b>	DNA Damage/DNA Repair
<b>Pathway:</b>	HDAC
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

insoluble in H<sub>2</sub>O; insoluble in EtOH; ≥14.8 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	3.3747 mL	16.8737 mL	33.7473 mL
	<b>5 mM</b>	0.6749 mL	3.3747 mL	6.7495 mL
	<b>10 mM</b>	0.3375 mL	1.6874 mL	3.3747 mL

Please refer to the solubility information to select the appropriate solvent.

### Biological Activity

Shortsummary

HDAC8 inhibitor,potent and selective

IC<sub>50</sub> & Target

10 nM (HDAC8), 2.9 μM (HDAC6), 4 μM (HDAC1), 13 μM (HDAC10), >50 μM (HDAC2), >50 μM (HDAC3)

In Vitro

#### Cell Viability Assay

Cell Line:	T-cell derived lines (Jurkat, HuT78, HSB-2 and Molt-4 cells)
Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	5 μM; 2 days

	Applications:	The HDAC8-selective inhibitor PCI-34051 was cytotoxic to T-cell derived lines.
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

1. Huang Y, Yang W, et al. "Droxinostat sensitizes human colon cancer cells to apoptotic cell death via induction of oxidative stress." Cell Mol Biol Lett. 2018 Jul 28;23:34.PMID:30065760

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1]. Balasubramanian S, Ramos J, Luo W, Sirisawad M, Verner E, Buggy JJ. A novel histone deacetylase 8 (HDAC8)-specific inhibitor PCI-34051 induces apoptosis in T-cell lymphomas. Leukemia. 2008 May;22(5):1026-34.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

**APEX BIO Technology**

[www.apexbt.com](http://www.apexbt.com)

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)

