

**Product Name:** PCI 34051

**Catalog No.:** 4643

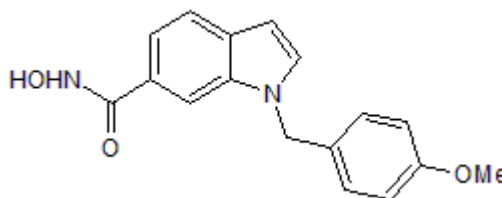
**Batch No.:** 1

**CAS Number:** 950762-95-5

**IUPAC Name:** *N*-Hydroxy-1-[(4-methoxyphenyl)methyl]-1*H*-indole-6-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>16</sub>N<sub>2</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 296.32  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
 1eq. NaOH to 20 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.18 (Dichloromethane:Methanol [96:4])  
**HPLC:** Shows >99.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	68.91	5.44	9.45
Found	68.91	5.39	9.48

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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 USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
 www.RnDSystems.com

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**CAS Number:** 950762-95-5

**IUPAC Name:** *N*-Hydroxy-1-[(4-methoxyphenyl)methyl]-1*H*-indole-6-carboxamide

**Description:**

Potent and selective histone deacetylase 8 (HDAC8) inhibitor ( $IC_{50}$  = 10 nM). Displays >200 fold selectivity over HDAC isoforms 1, 2, 3, 6 and 10. Induces apoptosis in cell lines derived from T cell lymphomas or leukemias.

**Physical and Chemical Properties:**

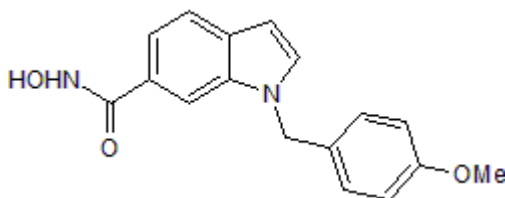
Batch Molecular Formula:  $C_{17}H_{16}N_2O_3$

Batch Molecular Weight: 296.32

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

1eq. NaOH to 20 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Balasubramanian et al** (2008) A novel histone deacetylase 8 (HDAC8)-specific inhibitor PCI-34051 induces apoptosis in T-cell lymphomas. *Leukemia* **22** (5) 1026. PMID: 18256683.

**Pipalia et al** (2011) Histone deacetylase inhibitor treatment dramatically reduces cholesterol accumulation in Niemann-Pick type C1 mutant human fibroblasts. *Proc.Natl.Acad.Sci.U.S.A.* **108** (14) 5620. PMID: 21436030.

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