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DATASHEET

PCI 34051

Product overview

Name	PCI 34051
Cat No	HB1393
Biological action	Inhibitor
Purity	>98%
Description	Potent, selective HDAC8 inhibitor

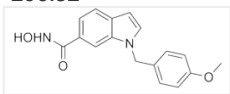
Biological Data

Biological description	Potent and selective histone deacetylase 8 (HDAC8) inhibitor ($IC_{50} = 10$ nM). Shows >200-fold selectivity over other HDAC isoforms (IC_{50} values are 2.9, 4, 13, >50 and >50 μ M for HDAC6, 1, 10, 2 and 3 respectively). Shows apoptotic and anti-cancer actions.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in NaOH(aq) (20mM, 1eq. NaOH) or DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	<i>N</i> -Hydroxy-1-[(4-methoxyphenyl)methyl]-1 <i>H</i> -indole-6-carboxamide
Molecular Weight	296.32
Chemical structure	
Molecular Formula	$C_{17}H_{16}N_2O_3$
CAS Number	950762-95-5
PubChem identifier	24753719
SMILES	<chem>O=C(NO)C1=CC=C2C(N(CC3=CC=C(OC)C=C3)C=C2)=C1</chem>
InChIKey	AJRGHIGYPXNABY-UHFFFAOYSA-N

References

A novel histone deacetylase 8 (HDAC8)-specific inhibitor PCI-34051 induces apoptosis in T-cell lymphomas.

Balasubramanian S *et al* (2008) Leukemia 22(5)

PubMedID [18256683](#)

HDAC8-mediated epigenetic reprogramming plays a key role in resistance to anthrax lethal toxin-induced pyroptosis in macrophages.

Ha SD *et al* (2014) J Immunol 193(3)

PubMedID [24973453](#)

Design, synthesis, and evaluation of hydroxamic acid-based molecular probes for in vivo imaging of histone deacetylase (HDAC) in brain.

Wang C *et al* (2013) Am J Nucl Med Mol Imaging 4(1)

PubMedID

[24380043](#)
