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DATASHEET

CI 994

Product overview

Name	CI 994
Cat No	HB1385
Alternative names	CI-994
Biological action	Inhibitor
Purity	>99%
Description	Potent, selective HDAC inhibitor

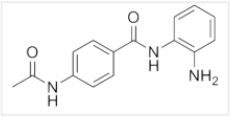
Biological Data

Biological description	Potent and selective histone deacetylase (HDAC) inhibitor. Inhibits HDAC1, 3, 6 and 8 (IC_{50} values are 0.41, 0.75, >100 and >100 µM respectively). Induces histone H3 hyperacetylation and cell differentiation. Shows anti-proliferative and apoptotic actions. Cell-permeable.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in 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	4-(Acetylamino)-*N*-(2-aminophenyl)be nzamide
Molecular Weight	269.3
Chemical structure	
Molecular Formula	$C_{15}H_{15}N_3O_2$
CAS Number	112522-64-2
PubChem identifier	2746
SMILES	O=C(NC2=C(N)C=CC=C2)C1=CC=C(NC(C)=O)C=C1
InChiKey	VAZAPHZUAVEOMC-UHFFFAOYSA-N

References

Distinct pharmacological properties of second generation HDAC inhibitors with the benzamide or hydroxamate head group.

Beckers T *et al* (2007) Int J Cancer 121(5)
PubMedID 17455259

Modulation of histone acetylation by [4-(acetylamino)-N-(2-amino-phenyl) benzamide] in HCT-8 colon carcinoma.

Kraker AJ *et al* (2003) Mol Cancer Ther 2(4)

PubMedID 12700284

In vitro study of CI-994, a histone deacetylase inhibitor, in non-small cell lung cancer cell lines.

Loprevite M *et al* (2005) Oncol Res 15(1)
PubMedID 15839304