

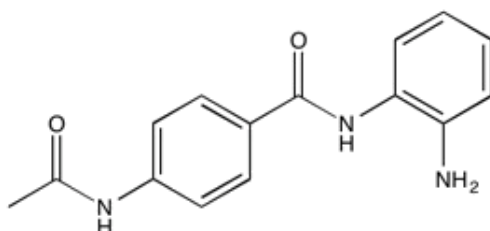
Catalog # 10-2125

CI-994

CAS# 112522-64-2

PD-123654; N-acetyl-dianiline; GOE-5549
4-(Acetylamino)-N-(2-aminophenyl)benzamide

Lot # X106329



Orally active histone deacetylase (HDAC) inhibitor, IC_{50} = 0.9, 0.9, 1.2 and >20 μ M for HDAC1, HDAC2, HDAC3 and HDAC8 respectively.¹ Mediates G₁ cell cycle arrest, inhibits proliferation and induces apoptosis *in vitro* and *in vivo*.^{2,3} Increases neuroplasticity during memory extinction.⁴ Protects beta cells from cytokine-induced apoptosis.⁴

- 1) Moradei *et al.* (2007), *Novel aminophenyl benzamide-type histone deacetylase inhibitors with enhanced potency and selectivity*; J. Med. Chem., **50** 5543
- 2) Beckers *et al.* (2007), *Distinct pharmacological properties of second generation HDAC inhibitors with the benzamide or hydroxamate head group*; Int. J. Cancer, **121** 1138
- 3) Loprevite *et al.* (2005), *In vitro study of CI-994, a histone deacetylase inhibitor, in non-small cell lung cancer cell lines*; Oncol. Res., **15** 39
- 4) Chou *et al.* (2012), *Inhibition of histone deacetylase 3 protects beta cells from cytokine-induced apoptosis*; Chem. Biol., **19** 669

PHYSICAL DATA

Molecular Weight:	269.30
Molecular Formula:	C ₁₅ H ₁₅ N ₃ O ₂
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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