

Certificate of Analysis

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Product Name: CI 994

Catalog No.: 2952

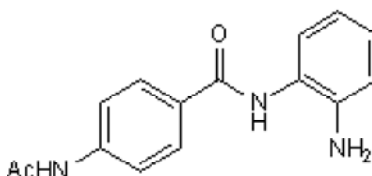
Batch No.: 1

CAS Number: 112522-64-2

IUPAC Name: 4-(Acetylamino)-N-(2-aminophenyl)benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₅N₃O₂
Batch Molecular Weight: 269.3
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.33 (Dichloromethane:Methanol [9:1])
HPLC: Shows >99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.9	5.61	15.6
Found	66.46	5.69	15.56

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

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CAS Number: 112522-64-2

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Description:

Orally active class I histone deacetylase (HDAC) inhibitor (K_i values are 0.41, 0.75, >100 and >100 μM for HDAC1, HDAC3, HDAC6 and HDAC8 respectively). Mediates G₁ cell cycle arrest, inhibits proliferation and induces apoptosis in vitro and in vivo. Increases neuroplasticity during memory extinction. Also increases efficiency of hepatic differentiation of hPSCs

Physical and Chemical Properties:

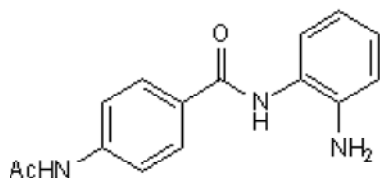
Batch Molecular Formula: C₁₅H₁₅N₃O₂

Batch Molecular Weight: 269.3

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Gräff et al (2014) Epigenetic priming of memory updating during reconsolidation to attenuate remote fear memories. *Cell* **156** 261. PMID: 24439381.

Beckers et al (2007) Distinct pharmacological properties of second generation HDAC inhibitors with the benzamide or hydroxamate head group. *Int.J.Cancer* **121** 1138. PMID: 17455259.

Kraker et al (2003) Modulation of histone acetylation by [4-(acetylamino)-N-(2-amino-phenyl) benzamide] in HCT-8 colon carcinoma. *Mol.Cancer Ther.* **2** 401. PMID: 12700284.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 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.

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