

Certificate of Analysis

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Product Name: UF 010

Catalog No.: 5588

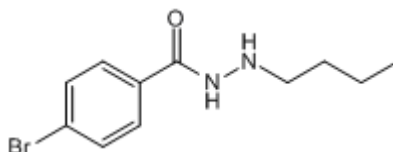
Batch No.: 1

CAS Number: 537672-41-6

IUPAC Name: 4-Bromo-N-butylbenzohydrazide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₅BrN₂O
Batch Molecular Weight: 271.15
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.72	5.58	10.33
Found	48.66	5.53	10.4

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

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IUPAC Name: 4-Bromo-*N*-butylbenzohydrazide

Description:

Class I HDAC inhibitor (IC₅₀ values are 0.06, 0.1, 0.5 and 1.5 μM for HDACs 3, 2, 1 and 8, respectively). Exhibits >6-fold selectivity over other HDACs. Induces accumulation of acetylated histones in HCT116 cells in vitro. Inhibits proliferation of a range of cancer cell lines. Arrests cells at G₁/S transition.

Physical and Chemical Properties:

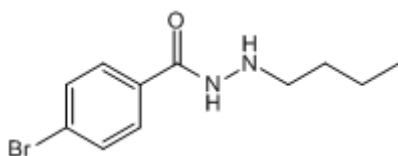
Batch Molecular Formula: C₁₁H₁₅BrN₂O

Batch Molecular Weight: 271.15

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Wang et al (2015) Identification of histone deacetylase inhibitors with benzoylhydrazide scaffold that selectively inhibit class I histone deacetylases. *Chem.Biol.* **22** 273. PMID: 25699604.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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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