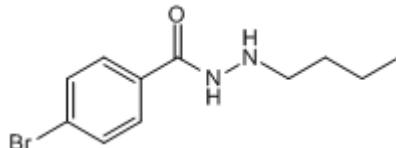


Certificate of Analysis**Product Name:** UF 010**Catalog No.:** 5588**Batch No.:** 1

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

Product Information

www.tocris.com**Product Name:** UF 010**Catalog No.:** 5588**Batch No.:** 1

CAS Number: 537672-41-6

IUPAC Name: 4-Bromo-N-butylbenzohydrazide

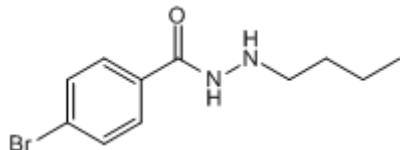
Description:

Class I HDAC inhibitor (IC_{50} values are 0.06, 0.1, 0.5 and 1.5 μ M 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:****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.

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.

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