

**Product Name:** BRD 73954

**Catalog No.:** 6284

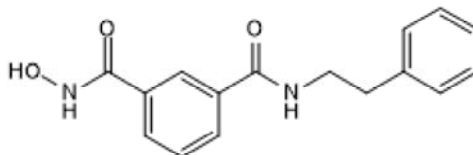
**Batch No.:** 1

CAS Number: 1440209-96-0

IUPAC Name: *N*<sup>1</sup>-Hydroxy-*N*<sup>3</sup>-(2-phenylethyl)-1,3-benzenedicarboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>16</sub>H<sub>16</sub>N<sub>2</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 284.31  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 20 mM with gentle warming  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 98.0% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	67.59	5.67	9.85
Found	67.33	5.68	9.84

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

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**Description:**

BRD 73954 is a dual histone deacetylase (HDAC) 6/8 inhibitor. IC<sub>50</sub> values are 0.036 μM, 0.12 μM, 9 μM, >33 μM, for HDAC6, HDAC8, HDAC2 and HDAC4, respectively.

**Physical and Chemical Properties:**

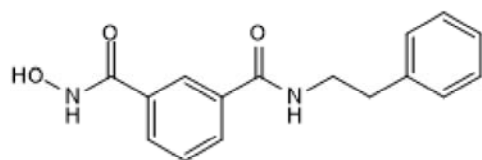
Batch Molecular Formula: C<sub>16</sub>H<sub>16</sub>N<sub>2</sub>O<sub>3</sub>

Batch Molecular Weight: 284.31

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 mM with gentle warming

**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:**

Olson *et al* (2013) Discovery of the first histone deacetylase 6/8 dual inhibitors. *J.Med.Chem.* **56** 4816. PMID: 23672185 .

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