

Certificate of Analysis

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Product Name: BRD 73954

Catalog No.: 6284

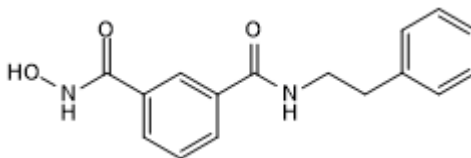
Batch No.: 1

CAS Number: 1440209-96-0

IUPAC Name: *N*¹-Hydroxy-*N*³-(2-phenylethyl)-1,3-benzenedicarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₆N₂O₃
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 98.9% purity
¹H 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:

Dual histone deacetylase (HDAC) 6/8 inhibitor. IC₅₀ values are 0.036 μM, 0.12 μM, 9 μM, >33 μM, for HDAC6, HDAC8, HDAC2 and HDAC4, respectively.

Physical and Chemical Properties:

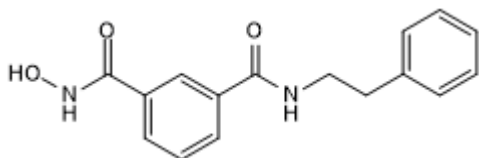
Batch Molecular Formula: C₁₆H₁₆N₂O₃

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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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956