

Product Name: BRD 9757

Catalog No.: 6040

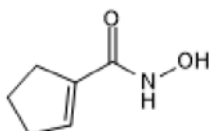
Batch No.: 1

CAS Number: 1423058-85-8

IUPAC Name: N-Hydroxy-1-cyclopentene-1-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆H₉NO₂
Batch Molecular Weight: 127.14
Physical Appearance: Pale pink solid
Solubility: water to 50 mM
DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.05 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.68	7.13	11.02
Found	56.88	7.05	11.03

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

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

Product Name: BRD 9757

Catalog No.: 6040

Batch No.: 1

CAS Number: 1423058-85-8

IUPAC Name: N-Hydroxy-1-cyclopentene-1-carboxamide

Description:

Potent and selective HDAC6 inhibitor (IC_{50} = 30 nM). Displays selectivity for HDAC6 over Class I HDACS (>20-fold) and Class II HDACs (>400-fold).

Physical and Chemical Properties:

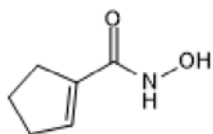
Batch Molecular Formula: C₆H₉NO₂

Batch Molecular Weight: 127.14

Physical Appearance: Pale pink solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 50 mM

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.

References:

Wagner et al (2013) Potent and selective inhibition of histone deacetylase 6 (HDAC6) does not require a surface-binding motif. *J.Med.Chem.* **56** 1772. PMID: 23368884.

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