

Certificate of Analysis

www.tocris.com

Product Name: CHDI 00390576

Catalog No.: 6725

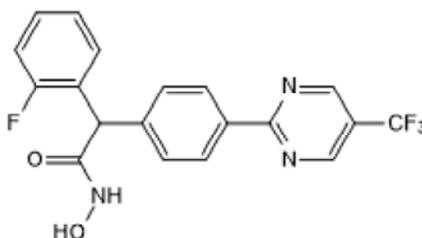
Batch No.: 2

CAS Number: 1629729-98-1

IUPAC Name: 2-(2-Fluorophenyl)-N-hydroxy-2-(4-(5-(trifluoromethyl)pyrimidin-2-yl)phenyl)acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₃F₄N₃O₂
Batch Molecular Weight: 391.32
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.29 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows >98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.32	3.35	10.74
Found	57.89	3.32	10.57

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: CHDI 00390576

Catalog No.: 6725

Batch No.: 2

CAS Number: 1629729-98-1

IUPAC Name: 2-(2-Fluorophenyl)-N-hydroxy-2-(4-(5-(trifluoromethyl)pyrimidin-2-yl)phenyl)acetamide

Description:

Potent and selective class IIa histone deacetylase (HDAC) inhibitor (IC₅₀ values are 31, 50, 54 and 60 nM for HDAC7, HDAC9, HDAC4 and HDAC5, respectively). Displays >100-fold selectivity for class IIa HDACs over other HDACs. Brain penetrant.

Physical and Chemical Properties:

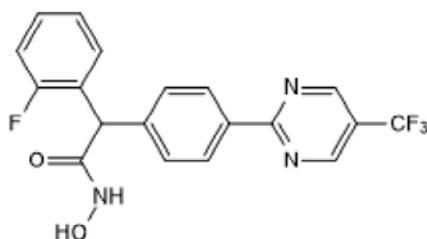
Batch Molecular Formula: C₁₉H₁₃F₄N₃O₂

Batch Molecular Weight: 391.32

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.

Licensing Information:

Sold under license from CHDI Foundation

References:

Luckhurst *et al* (2019) Development and characterization of a CNS-penetrant benzhydryl hydroxamic acid class IIa histone deacetylase inhibitor. *Bioorg.Med.Chem.Lett.* **29** 83. PMID: 30463802.

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