TOCRIS a biotechne brand

Print Date: Jul 6th 2022

Batch No.: 1

Certificate of Analysis

www.tocris.com

Catalog No.: 7629

Product Name: Panobinostat

CAS Number: 404950-80-7

IUPAC Name: (2E)-N-Hydroxy-3-[4-[[[2-(2-methyl-1H-indol-3-yl)ethyl]amino]methyl]phenyl]-2-propenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight:

Physical Appearance:

Solubility:

Storage:

Batch Molecular Structure:

C₂₁H₂₃N₃O₂.H₂O 367.45 Beige solid DMSO to 100 mM Store at -20°C

NH òн

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Shows 98.6% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 68.64 6.86 11.44 Found 68.56 6.9 11.46

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
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biotechne

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(2E)-N-Hydroxy-3-[4-[[[2-(2-methyl-1H-indol-3-yl)ethyl]amino]methyl]phenyl]-2-propenamide

Description:

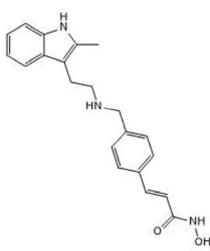
Panobinostat is a potent pan-histone deacetylase (HDAC) inhibitor (IC₅₀ values = 2.1 - 531 nM). Panobinostat induces histone H3 and H4 acetylation and potently inhibits cell proliferation and cell viability in HH, BT474 and HCT116 cells (IC₅₀ are 1.8, 2.6 and 7.1 nM, respectively) in vitro. It leads to significant tumor regression of up to 94% in an HH CTCL mouse xenograft model. Panobinostat inhibits the DNA binding activity of STAT5 in leukemia cell lines and acts synergistically with 17-AAG (Cat. No. 1515) to induce apoptosis. The compound shows potent antimyeloma activity, including in drug-resistant cell lines. Panobinostat also induces ... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₁H₂₃N₃O₂.H₂O Batch Molecular Weight: 367.45 Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Takahashi et al (2021) Histone deacetylase inhibitors suppress ACE2 and ABO simultaneously, suggesting a preventive potential against COVID-19. Sci.Rep. 11 (1) 3379. PMID: 33564039.

Barton et al (2016) Broad activation of latent HIV-1 in vivo. Nat.Commun. 7 12731. PMID: 27605062.

Atadja (2009) Development of the pan-DAC inhibitor panobinostat (LBH589): successes and challenges. Cancer Lett. 280 (2) 233. PMID: 19344997.

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Storage: Store at -20°C

Solubility & Usage Info: 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).

Catalog No.: 7629

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.

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