



Product Specification Sheet

Product Name: Mocetinostat (MGCD0103)

Catalog Number: C6623

Technical information:

Chemical Formula: $C_{23}H_{20}N_6O$

CAS #: 726169-73-9

Molecular Weight: 396.44

Purity: > 98%

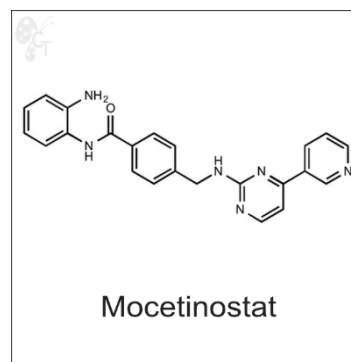
Appearance: Off-white solid

Solubility: Soluble in DMSO up to 10 mM

Chemical Name: N-(2-aminophenyl)-4-((4-(pyridin-3-yl)pyrimidin-2-ylamino)methyl)benzamide

Storage: For longer shelf life, store solid powder or DMSO solution at -20°C desiccated.

Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.



- Handling:**
- To make 10 mM stock solution, add 0.252mL of DMSO for each mg of Mocetinostat (MGCD0103).
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: Mocetinostat (MGCD0103) is a potent and isotype-selective inhibitor of histone deacetylases (HDACs). In cell-free assays, Mocetinostat (MGCD0103) exhibited most potent inhibition against human HDAC1 (IC₅₀ = 0.15 μM) and also has inhibitory activity against HDAC2, HDAC3, and HDAC11, with IC₅₀ values ranged 0.3 to 1.7 μM. No activity was showed on HDACs 4-8. [1] Mocetinostat (MGCD0103) exhibited potent inhibition activity in proliferation of human cancer cell lines, both in cell-based assay and in human tumor xenografts in nude mice. [1] Mocetinostat (MGCD0103) has been evaluated in Phase II clinical trials in patients with metastatic leiomyosarcoma [2] and Hodgkin's lymphoma [3]."

- Reference:**
1. Fournel M, et al. MGCD0103, a novel isotype-selective histone deacetylase inhibitor, has broad spectrum antitumor activity in vitro and in vivo. Mol Cancer Ther. 2008; 7(4):759-68 Pubmed ID: 18413790
 2. <https://clinicaltrials.gov/show/NCT02303262> Pubmed ID: NCT02303262
 3. <https://clinicaltrials.gov/show/NCT02429375> Pubmed ID: NCT02429375

To reorder: <http://www.cellagentech.com/Mocetinostat-MGCD0103/>

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.