

HD-800

Chemical Properties

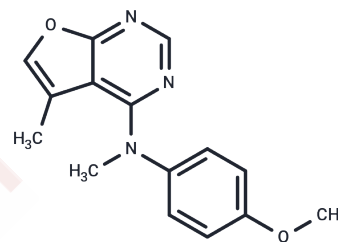
CAS No. : 1204408-27-4

Formula: C₁₅H₁₅N₃O₂

Molecular Weight: 269.3

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	HD-800 is a highly bioactive and selective SIRT2 deacetylase inhibitor (IC ₅₀ = 37 nM). It exhibits excellent selectivity over SIRT1/3/5 isoforms and regulates tumor cell mitosis alongside neuroprotective effects by drastically increasing intracellular tubulin acetylation levels.
Targets(IC ₅₀)	Sirtuin
In vitro	HD-800 exhibits potent tubulin inhibition (IC ₅₀ = 4.3 nM) and serves as a probe for cytoskeletal dynamics [1].
In vivo	HD-800 shows excellent brain penetration; [¹¹ C].HD-800 is used as a PET tracer for in vivo brain microtubule imaging [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7133 mL	18.5667 mL	37.1333 mL
5 mM	0.7427 mL	3.7133 mL	7.4267 mL
10 mM	0.3713 mL	1.8567 mL	3.7133 mL
50 mM	0.0743 mL	0.3713 mL	0.7427 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zhong Q, et al. Limosilactobacillus-related 3-OMDP as a potential therapeutic target for depression. Ann Med. 2024 Dec;56(1):2417179.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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