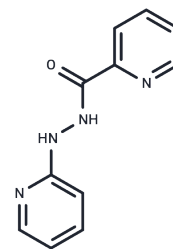


PFI-90

Chemical Properties

CAS No. : 53995-62-3
 Formula: C₁₁H₁₀N₄O
 Molecular Weight: 214.22
 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	PFI-90, a selective histone demethylase (KDM3B) inhibitor, targets PAX3-FOXO1 action and demonstrates potential antitumor activity. It induces apoptosis and myogenic differentiation, leading to increased cell death.
Targets(IC50)	Apoptosis,Histone Demethylase
In vitro	PFI-90 (3 μ M; 24 hours) increases apoptosis in RH4 and SCMC cells[1].

Solubility Information

Solubility	Ethanol: 20 mg/mL (93.36 mM),Sonication and heating are recommended. DMSO: 125 mg/mL (583.51 mM),Sonication is recommended. H ₂ O: insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6681 mL	23.3405 mL	46.681 mL
5 mM	0.9336 mL	4.6681 mL	9.3362 mL
10 mM	0.4668 mL	2.334 mL	4.6681 mL
50 mM	0.0934 mL	0.4668 mL	0.9336 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

KHAN, Javed, et al. Inhibitors of histone demethylases (pfi-63 and pfi-90) for the treatment of cancer and for the inhibition of histone demethylase in cells. WO2021101929A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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