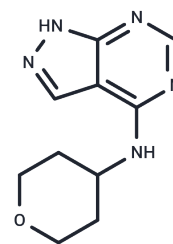


ZINC194100678

Chemical Properties

CAS No. : 1995025-05-2
 Formula: C₁₀H₁₃N₅O
 Molecular Weight: 219.24
 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	ZINC194100678 is an effective PAK1 inhibitor with IC ₅₀ of 8.37 μM. ZINC194100678 showed strong anti-proliferation activity, with IC ₅₀ value of 40.16 μM against MDA-MB-231.
Targets(IC ₅₀)	PAK
In vitro	ZINC194100678, at concentrations ranging from 0-50 μM over 48 hours, exhibits potent antiproliferative effects, as evidenced by an IC ₅₀ value of 40.16 μM, in the MDA-MB-231 cell line. This is demonstrated through a cell proliferation assay [1].

Solubility Information

Solubility	DMSO: 2.2 mg/mL (10.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5612 mL	22.8061 mL	45.6121 mL
5 mM	0.9122 mL	4.5612 mL	9.1224 mL
10 mM	0.4561 mL	2.2806 mL	4.5612 mL
50 mM	0.0912 mL	0.4561 mL	0.9122 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

Zhang J, et al. Design, synthesis and biological evaluation of 1H-pyrazolo [3,4-d]pyrimidine derivatives as PAK1 inhibitors that trigger apoptosis, ER stress and anti-migration effect in MDA-MB-231 cells. Eur J Med Chem. 2020; 194:112220.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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