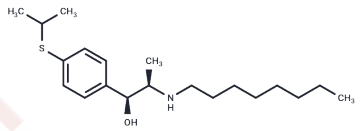
Data Sheet (Cat.No.T0712)

TargetMol

Suloctidil

Chemical Properties



CAS No. : 54767-75-8

Formula: C20H35NOS

Molecular Weight: 337.56

Appearance: no data available

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

Biological Description

Description	Suloctidil is a peripheral vasodilator that was formerly used in the management of peripheral and cerebral vascular disorders. It is hepatotoxic and fatalities have occurred.
Targets(IC50)	ATPase,Platelet aggregation
Kinase Assay	Protein Kinase profiling assay: Assay for 22 different proteins kinases is carried out by ProQinase Gmbh. All of the protein kinases are expressed either in Sf9 insect cells or in E. coli as recombinant GST-fusion proteins or His-tagged proteins. Protein kinases are purified by affinity chromatography using either GSH-agarose or Ni_NTH-agarose. A radiometric protein kinase assay is used for measuring the kinase activity of the 22 protein kinases. Briefly, for each protein kinase, 50 µL reaction cocktail containing 60 mM HEPES-NaOH, 3 mM MgCl2, 3 mM MnCl2, 3 µM Na-orthovanadate, 1.2 mM DTT, 50 µg/mL PEG20000, 1 µM [γ-33P]-ATP, Niclosamide, adequate amount of enzyme and its substrate. The PKC-alpha assay additionally contain 1 mM Cacl2, 4 mM EDTA, 5 µg/mL phosphatidylserine and 1 µg/mL 1, 2-Dioleyl-glycerol. The reaction cocktails are incubated at 37 °C for 60 minutes and stop with 50 µL 2% (v/v) H3PO4. Incorporation of 33Pi is determined with a microplate scintillation counter. The activities and the IC50 values are calculated using Quattro Workflow V2.28.

Solubility Information

Solubility	DMSO: 50 mg/mL (148.12 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9624 mL	14.8122 mL	29.6244 mL
5 mM	0.5925 mL	2.9624 mL	5.9249 mL
10 mM	0.2962 mL	1.4812 mL	2.9624 mL
50 mM	0.0592 mL	0.2962 mL	0.5925 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.

Reference

Ishibashi A, et al. Nihon Yakurigaku Zasshi. 1983 Nov;82(5):361-73.
Su C, Cheng C, Rong Z, et al.Repurposing fluphenazine as an autophagy modulator for treating liver cancer. Heliyon.2023