

Go6976

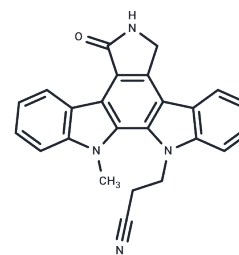
Chemical Properties

CAS No. : 136194-77-9

Formula: C₂₄H₁₈N₄O

Molecular Weight: 378.43

Storage: Store at low temperature, Keep away from direct sunlight, Keep away from moisture
 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	Go6976 is a small molecule inhibitor of protein kinase C (PKC). Go6976 has been widely used in biomedical research as a tool to study the role of PKC in various physiological and pathophysiological processes.
Targets(IC50)	Influenza Virus, PKC
In vitro	30 nM Go6976 is sufficient to cause abrogation of S-phase arrest in 6 h and abrogation of G2 arrest followed by lethal mitosis in 24 h. Incubation of cells with 100 nM Go6976 is sufficient to cause complete abrogation of S and G2 arrest at 6 and 24 h, respectively, which is only slightly less potent than in bovine serum[1]. Go6976 is a potent inhibitor of PKC in vitro (IC50 is 20 nM. This compound is structurally related to staurosporine, which is the most potent PKC inhibitor[2]

Solubility Information

Solubility	DMSO: 30 mg/mL (79.27 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	<p>10% DMSO+90% (20% SBE-β-CD in Saline): < 3 mg/mL (7.93 mM), Lower concentrations may be soluble, but exact solubility limit is unknown.</p> <p>10% DMSO+90% Corn Oil: 3.3 mg/mL (8.72 mM), Sonication is recommended.</p> <p>10% DMSO+40% PEG300+5% Tween 80+45% Saline: < 3 mg/mL (7.93 mM), Lower concentrations may be soluble, but exact solubility limit is unknown.</p> <p>10% DMSO+90% Saline: < 3 mg/mL (7.93 mM), Lower concentrations may be soluble, but exact solubility limit is unknown.</p> <p>10% DMSO+90% Corn oil: < 3 mg/mL (7.93 mM), Lower concentrations may be soluble, but exact solubility limit is unknown.</p> <p><i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i></p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6425 mL	13.2125 mL	26.425 mL
5 mM	0.5285 mL	2.6425 mL	5.285 mL
10 mM	0.2642 mL	1.3212 mL	2.6425 mL
50 mM	0.0528 mL	0.2642 mL	0.5285 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

Hayamitsu Adachi, et al. Microbial metabolites and derivatives targeted at inflammation and bone diseases therapy: chemistry, biological activity and pharmacology. The Journal of Antibiotics volume 71, pages 60-71 (2018).

Qatsha KA, et al. Gö 6976, a selective inhibitor of protein kinase C, is a potent antagonist of human immunodeficiency virus 1 induction from latent/low-level-producing reservoir cells in vitro. Proc Natl Acad Sci U S A. 1993 May 15;90(10):4674-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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