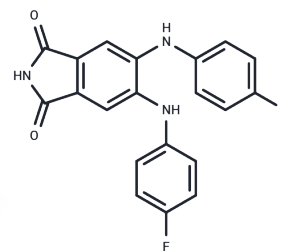


CGP 53353

Chemical Properties

CAS No. : 145915-60-2
 Formula: C₂₀H₁₃F₂N₃O₂
 Molecular Weight: 365.33
 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	CGP 53353 (DAPH-7) is a PKC inhibitor with inhibitory effects on PKC β II and PKC β I and can be used to study atherosclerosis.
Targets(IC50)	DNA/RNA Synthesis,PKC
In vitro	In A10 cells, CGP-53353 (DAPH-7) inhibits glucose-induced cell proliferation when administered at 1 μ M for 48-96 hours[1]. At a concentration of 1 μ M for the initial 0-48 hours, CGP-53353 inhibits the glucose-induced increase and acceleration of DNA synthesis in A10 cells. It also blocks the glucose-induced increase in the percentage of S-phase cells[1].

Solubility Information

Solubility	Ethanol: < 7.31 mg/mL,Sonication is recommended. DMSO: 50 mg/mL (136.86 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	2.7373 mL	13.6863 mL	27.3725 mL
5 mM	0.5475 mL	2.7373 mL	5.4745 mL
10 mM	0.2737 mL	1.3686 mL	2.7373 mL
50 mM	0.0547 mL	0.2737 mL	0.5475 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

Yamamoto M, et al. Acute glucose-induced downregulation of PKC-betaII accelerates cultured VSMC proliferation. Am J Physiol Cell Physiol. 2000;279(3):C587-C595.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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