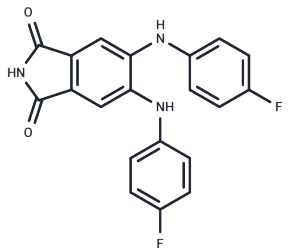
# Data Sheet (Cat.No.T22650)

TargetMol

## 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 PKCβII and PKCβI 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 μM for 48-96 hours[1].<br>At a concentration of 1 μM 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.<br>DMSO: 50 mg/mL (136.86 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

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.



Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481