

Certificate of Analysis

Product Name: CGP 53353

Catalog No.: 2442

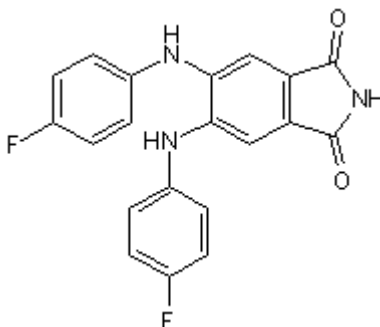
Batch No.: 1

CAS Number: 145915-60-2

IUPAC Name: 5,6-bis[(4-Fluorophenyl)amino]-1*H*-isoindole-1,3(2*H*)-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₃F₂N₃O₂
Batch Molecular Weight: 365.34
Physical Appearance: Orange solid
Solubility: DMSO to 100 mM
ethanol to 20 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.63 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows >99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.75	3.59	11.5
Found	65.67	3.5	11.23

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Selective inhibitor of PKC β II (IC₅₀ values are 0.41 and 3.8 μ M for PKC β II and PKC β I respectively). Also inhibits prionogenic Sup35 fibrillization (IC₅₀ ~ 3.4 μ M) and inhibits de novo A β 42 assembly in vitro.

Physical and Chemical Properties:

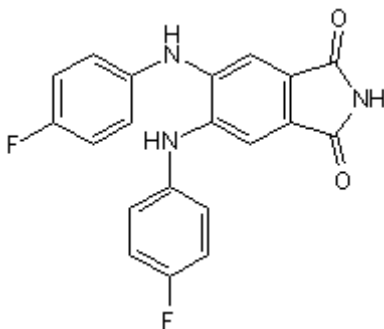
Batch Molecular Formula: C₂₀H₁₃F₂N₃O₂

Batch Molecular Weight: 365.34

Physical Appearance: Orange solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Kouroedov et al (2004) Selective inhibition of protein kinase C β 2 prevents acute effects of high glucose on vascular cell adhesion molecule-1 expression in human endothelial cells. *Circulation* **110** 91. PMID: 15210597.

Wang et al (2008) Direct and selective elimination of specific prions and amyloids by 4,5-dianilinophthalimide and analogs. *Proc.Natl.Acad.Sci.USA* **105** 7159.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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