

Product Name: CMPD-1

Catalog No.: 2186

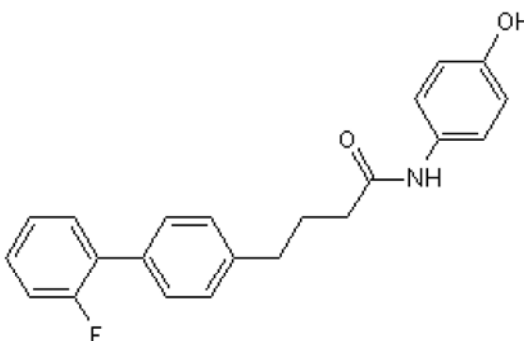
Batch No.: 3

CAS Number: 41179-33-3

IUPAC Name: 2'-Fluoro-*N*-(4-hydroxyphenyl)-[1,1'-biphenyl]-4-butanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₀FNO₂
Batch Molecular Weight: 349.4
Physical Appearance: Pale pink solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Dichloromethane:Methanol [1:5])
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.63	5.77	4.01
Found	75.47	5.77	3.99

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

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Description:

Non-ATP-competitive, selective inhibitor of p38 α -mediated MK2a (mitogen-activated protein kinase-2a) phosphorylation (apparent K_i = 330 nM). Does not inhibit p38 α -mediated phosphorylation of MBP and ATF-2. Also tubulin polymerization inhibitor. Cytotoxic in glioblastoma cells at concentrations that do not affect the MK2 pathway.

Physical and Chemical Properties:

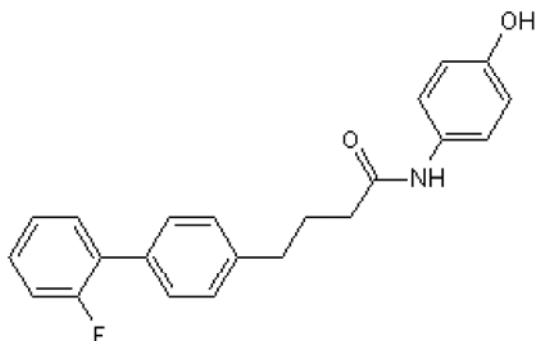
Batch Molecular Formula: C₂₂H₂₀FNO₂

Batch Molecular Weight: 349.4

Physical Appearance: Pale pink solid

Minimum Purity: \geq 99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 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.

References:

Gurgis *et al* (2015) Cytotoxic activity of the MK2 inhibitor CMPD1 in glioblastoma cells is independent of MK2. *Cell Death Discovery* **1** 15028.

Davidson *et al* (2004) Discovery and characterisation of a substrate selective p38 α inhibitor. *Biochemistry* **43** 11658. PMID: 15362850.

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