

Certificate of Analysis

Product Name: PD 198306

Catalog No.: 2605

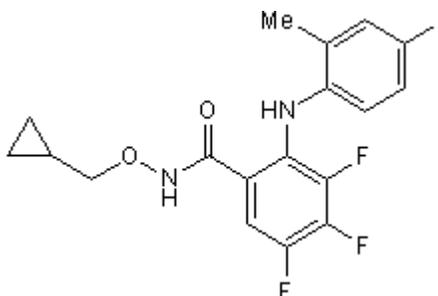
Batch No.: 1

CAS Number: 212631-61-3

IUPAC Name: *N*-(Cyclopropylmethoxy)-3,4,5-trifluoro-2-[(4-iodo-2-methylphenyl)amino]-benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₆F₃IN₂O₂
Batch Molecular Weight: 476.23
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.43 (Ethyl acetate:Petroleum ether [1:3])
Melting Point: Between 140 - 141°C
HPLC: Shows >98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	45.4	3.39	5.88
Found	45.37	3.29	5.8

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

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Description:

Potent inhibitor of MEK1/2. Inhibits isolated enzyme at a concentration of 8 nM and inhibits MEK activity in synovial fibroblasts at concentrations of 30 - 100 nM. Highly selective for MEK; IC₅₀ values are > 1, > 4, > 4 and > 10 μM for ERK, c-Src, cdk5 and PI 3-kinase γ respectively. Antihyperalgesic; blocks static allodynia in the streptozocin model of neuropathic pain following i.t. administration.

Physical and Chemical Properties:

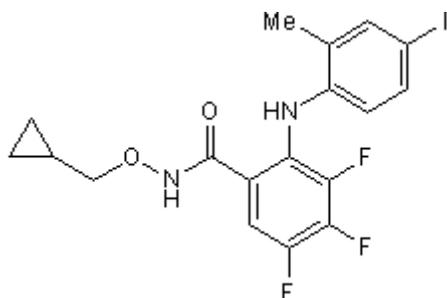
Batch Molecular Formula: C₁₈H₁₆F₃IN₂O₂

Batch Molecular Weight: 476.23

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Ciruela *et al* (2003) Identification of MEK1 as a novel target for the treatment of neuropathic pain. *Br.J.Pharmacol.* **138** 751. PMID: 12642375.

Pelletier *et al* (2003) In vivo selective inhibition of mitogen-activated protein kinase kinase 1/2 in rabbit experimental osteoarthritis is associated with a reduction in the development of structural changes. *Arthrit.Rheumat.* **48** 1582.

Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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.

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