

Certificate of Analysis

Product Name: PD 184352

Catalog No.: 4237

Batch No.: 1

CAS Number: 212631-79-3

IUPAC Name: 2-[(2-Chloro-4-iodophenyl)amino]-*N*-cyclopropylmethoxy)-3,4-difluorobenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₄ClF₂IN₂O₂

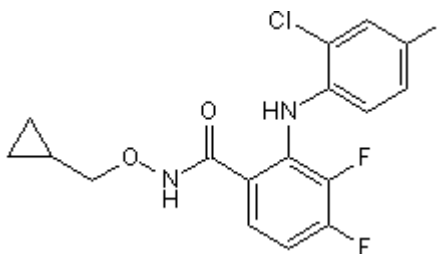
Batch Molecular Weight: 478.66

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 25 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	42.66	2.95	5.85
Found	42.89	2.96	5.93

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

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Description:

Selective MEK inhibitor ($K_i = 300$ nM in vitro). Suppresses FGF-mediated angiogenesis in vivo and decreases VEGF expression. Enhances the therapeutic efficacy of taxol (Cat. No. 1097) in vivo. Orally active.

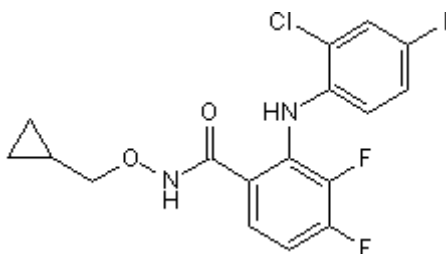
Physical and Chemical Properties:

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Physical Appearance: White solid

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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 25 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:

Allen et al (2003) CI-1040 (PD184252), a targeted signal transduction inhibitor of MEK (MAPKK). *Semin.Oncol.* **30** 105. PMID: 14613031.

McDaid et al (2005) Enhancement of the therapeutic efficacy of taxol by the mitogen-activated protein kinase kinase inhibitor CI-1040 in nude mice bearing human heterotransplants. *Cancer Res.* **65** 2854. PMID: 15805287.

Solit et al (2006) BRAF mutation predicts sensitivity to MEK inhibition. *Nature* **439** 358. PMID: 16273091.

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