TOCRIS
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Print Date: May 17th 2022

Certificate of Analysis

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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: $C_{17}H_{14}ClF_2IN_2O_2$

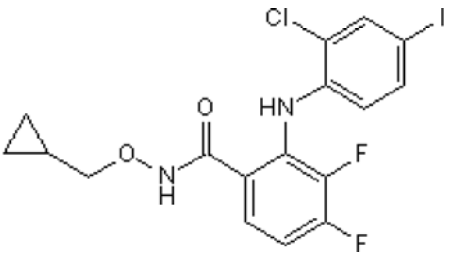
Batch Molecular Weight: 478.66

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 99.4% purity

^{1}H 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

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Information

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CAS Number: 212631-79-3

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

Description:

PD 184352 is a 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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Batch Molecular Weight: 478.66

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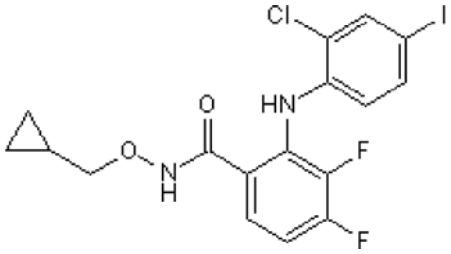

Storage: Store at +4°C

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.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc.

References:

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

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

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

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