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Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: **PD 334581** **Catalog No.: 4824** **Batch No.: 1**

CAS Number: 548756-68-9

IUPAC Name: *N*-[5-[3,4-Difluoro-2-[(2-fluoro-4-iodophenyl)amino]phenyl]-1,3,4-oxadiazol-2-yl]-4-morpholineethanamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{20}H_{19}F_3IN_5O_2$

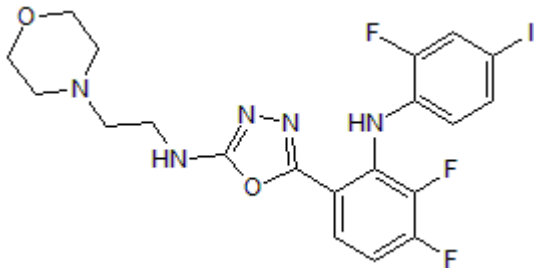
Batch Molecular Weight: 545.3

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM
ethanol to 10 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.05	3.51	12.84
Found	43.92	3.51	12.53

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Description:

Inhibitor of MEK1. Analog of PD 184352 (Cat. No. 4237).

Physical and Chemical Properties:

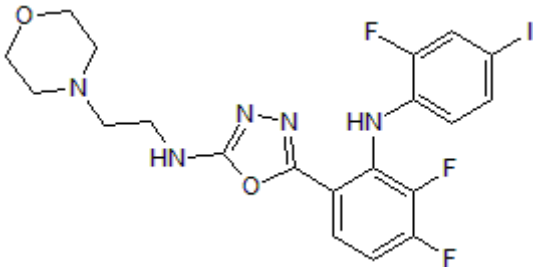
Batch Molecular Formula: $C_{20}H_{19}F_3IN_5O_2$

Batch Molecular Weight: 545.3

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 10 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:

Ohren *et al* (2004) Structures of human MAP kinase kinase 1 (MEK1) and MEK2 describe novel competitive kinase inhibition. Nat.Struct.Mol.Biol. ***11*** 1192. PMID: 15543157.

Zhang *et al* (2009) Targeting cancer with small molecule kinase inhibitors. Nat.Rev.Cancer ***9*** 28. PMID: 19104514.