

Product Name: PD 0325901

Catalog No.: 4192

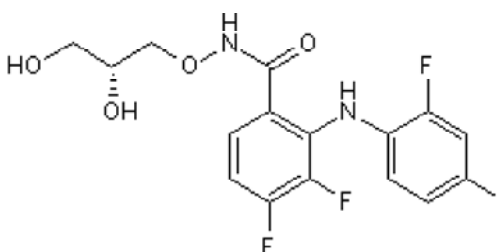
Batch No.: 4

CAS Number: 391210-10-9

IUPAC Name: *N*-[(2*R*)-2,3-Dihydroxypropoxy]-3,4-difluoro-2-[(2-fluoro-4-iodophenyl)amino]-benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₄F₃IN₂O₄
Batch Molecular Weight: 482.19
Physical Appearance: Off-white solid
Solubility: DMSO to 25 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	39.85	2.93	5.81
Found	39.85	2.89	5.84

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

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Description:

Potent MEK1 and MEK2 inhibitor. Inhibits MEK activity in mouse colon 26 cells (IC₅₀ = 0.33 nM). Inhibits the growth of melanoma cell lines in vitro and in vivo; induces G₁-phase cell cycle arrest and apoptosis in a mouse xenograft model. Also inhibits production of proangiogenic cytokines such as VEGF. Enhances generation of induced pluripotent stem cells (iPSCs). Orally active.

Physical and Chemical Properties:

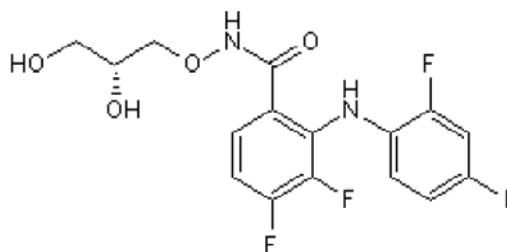
Batch Molecular Formula: C₁₆H₁₄F₃IN₂O₄

Batch Molecular Weight: 482.19

Physical Appearance: Off-white solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at -20°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 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:

Koehler *et al* (2014) 3D mouse embryonic stem cell culture for generating inner ear organoids. *Nat.Protoc.* **9** 1299. PMID: 24784820.

Ciuffreda *et al* (2009) Growth-inhibitor and antiangiogenic activity of the MEK inhibitor PD0325901 in malignant melanoma with or without BRAF mutations. *Neoplasia* **11** 720. PMID: 19649202.

Lin *et al* (2009) A chemical platform for improved induction of human iPSCs. *Nat.Methods.* **6** 805. PMID: 19838168.

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