

**Product Name:** VU 0155069

**Catalog No.:** 3575

**Batch No.:** 1

CAS Number: 1781834-89-6

IUPAC Name: *N*-[(1*S*)-2-[4-(5-Chloro-2,3-dihydro-2-oxo-1*H*-benzimidazol-1-yl)-1-piperidinyl]-1-methylethyl]-2-naphthalenecarboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>26</sub>H<sub>27</sub>ClN<sub>4</sub>O<sub>2</sub>.HCl.1½H<sub>2</sub>O

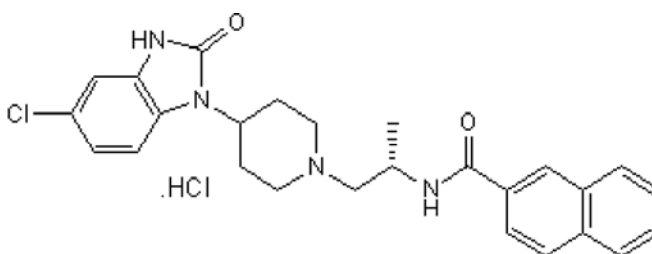
**Batch Molecular Weight:** 526.45

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM  
ethanol to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.3 (Chloroform:Methanol [95:5])

**HPLC:** Shows 97.7% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = +81.2 (Concentration = 1, Solvent = Methanol)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	59.32	5.93	10.64
Found	59.19	5.79	10.64

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

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**Description:**

VU 0155069 is a potent and selective phospholipase D1 (PLD1) inhibitor (IC<sub>50</sub> values are 46 and 933 nM for PLD1 and PLD2 respectively). Inhibits migration of human and mouse breast cancer cell lines in transwell assays.

**Physical and Chemical Properties:**

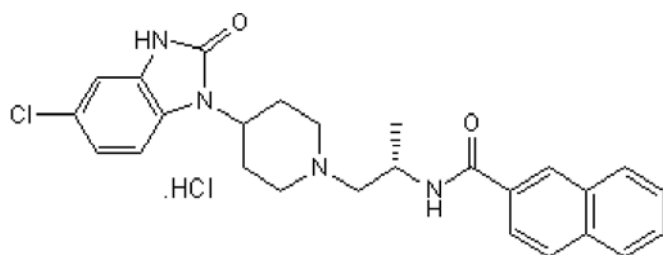
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Batch Molecular Weight: 526.45

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 50 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:**

**Lewis et al** (2009) Design and synthesis of isoform-selective phospholipase D (PLD) inhibitors. Part I: Impact of alternative halogenated privileged structures for PLD1 specificity. *Bioorg.Med.Chem.Lett.* **19** 1916. PMID: 19268584.

**Scott et al** (2009) Design of isoform-selective phospholipase D inhibitors that modulate cancer cell invasiveness. *Nat.Chem.Biol.* **5** 108. PMID: 19136975.

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