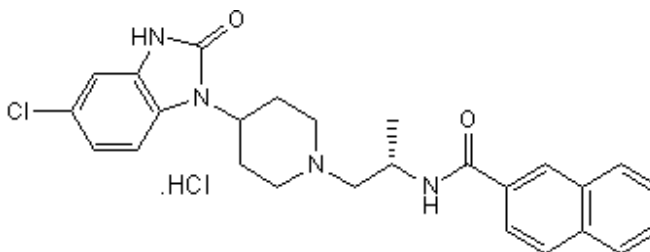


Product Name: VU 0155069 **Catalog No.:** 3575 **Batch No.:** 1
CAS Number: 1130067-06-9
IUPAC Name: *N*-[(1*S*)-2-[4-(5-Chloro-2,3-dihydro-2-oxo-1*H*-benzimidazol-1-yl)-1-piperidinyl]-1-methylethyl]-2-naphthalenecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₇ClN₄O₂.HCl.1½H₂O
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_f = 0.3 (Chloroform:Methanol [95:5])
HPLC: Shows 98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +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:

Potent and selective phospholipase D1 (PLD1) inhibitor (IC₅₀ 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:

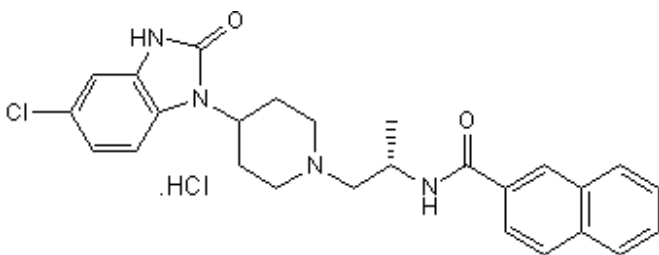
Batch Molecular Formula: C₂₆H₂₇ClN₄O₂·HCl·1½H₂O

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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