

Product Name: FIPI

Catalog No.: 3600

Batch No.: 3

CAS Number: 1781834-93-2

IUPAC Name: N-[2-[4-(2,3-Dihydro-2-oxo-1H-benzimidazol-1-yl)-1-piperidinyl]ethyl]-5-fluoro-1H-indole-2-carboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₄FN₅O₂.HCl.1½H₂O

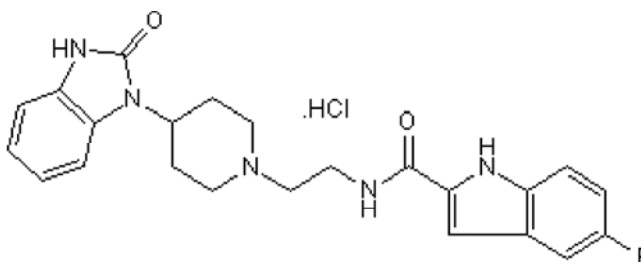
Batch Molecular Weight: 484.95

Physical Appearance: White solid

Solubility: DMSO to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.96	5.82	14.44
Found	56.95	5.88	14.56

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Description:

Potent phospholipase D (PLD) inhibitor (IC₅₀ values are 20 and 25 nM for PLD₂ and PLD₁ respectively). Ameliorates PLD₂-driven suppression of membrane ruffling and cell spreading. Orally available.

Physical and Chemical Properties:

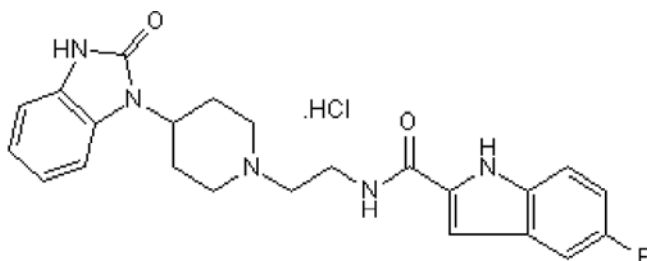
Batch Molecular Formula: C₂₃H₂₄FN₅O₂·HCl·1½H₂O

Batch Molecular Weight: 484.95

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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:

Su et al (2009) 5-fluoro-2-indolyl des-chlorohalopemide (FIPI), a phospholipase D pharmacological inhibitor that alters cell spreading and inhibits chemotaxis. *Mol.Pharmacol.* **75** 43.

Monovich et al (2007) Optimization of halopemide for phospholipase D2 inhibition. *Bioorg.Med.Chem.Lett.* **17** 2310. PMID: 17317170.

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