

Inavolisib

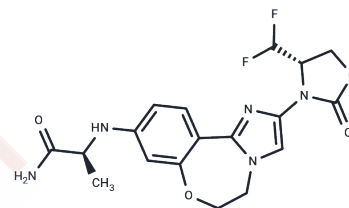
Chemical Properties

CAS No. : 2060571-02-8

Formula: C₁₈H₁₉F₂N₅O₄

Molecular Weight: 407.37

Storage: Store at low temperature, Keep away from direct sunlight
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Inavolisib (GDC-0077) is an orally available selective PI3K α inhibitor with an IC ₅₀ value of 0.038 nM. It exerts its activity by binding to the ATP-binding site of PI3K, thereby inhibiting the phosphorylation of PIP ₂ to PIP ₃ .
Targets(IC ₅₀)	Apoptosis, PI3K
In vitro	METHODS: Cell viability was assayed using Inavolisib (GDC-00777) up to 100 μ mol/L in a panel of cancer cell lines. RESULTS Inavolisib (GDC-00777) is a stronger cellular antiproliferative inducer. [1]
In vivo	METHODS: p110 α protein depletion was studied in a p110 α mutant xenograft breast cancer model using Inavolisib (GDC-0077) at a single oral dose of 50 mg/kg DC-0077. RESULTS Inavolisib (GDC-0077) depleted p110 α protein expression for up to 8 hours. [1]

Solubility Information

Solubility	DMSO: 240 mg/mL (589.15 mM), Sonication is recommended. ($<$ 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (24.55 mM), Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4548 mL	12.2739 mL	24.5477 mL
5 mM	0.491 mL	2.4548 mL	4.9095 mL
10 mM	0.2455 mL	1.2274 mL	2.4548 mL
50 mM	0.0491 mL	0.2455 mL	0.491 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Song KW, et al. RTK-Dependent Inducible Degradation of Mutant PI3K α Drives GDC-0077 (Inavolisib) Efficacy. *Cancer Discov.* 2022 Jan;12(1):204-219.

Hanan EJ, et al. Discovery of GDC-0077 (Inavolisib), a Highly Selective Inhibitor and Degradator of Mutant PI3K α . *J Med Chem.* 2022 Dec 22;65(24):16589-16621.

Song KW, et al. RTK-Dependent Inducible Degradation of Mutant PI3K α Drives GDC-0077 (Inavolisib) Efficacy. *Cancer Discov.* 2022 Jan;12(1):204-219.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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