

YS-67

Chemical Properties

CAS No. : 2761327-15-3

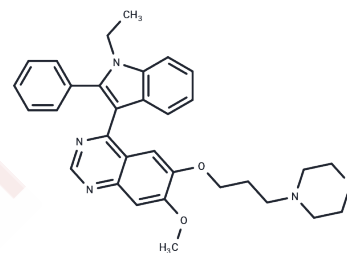
Formula: C₃₂H₃₄N₄O₃

Molecular Weight: 522.64

Store at low temperature

Storage: 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	YS-67 is an orally available, selective and potent EGFR inhibitor with antitumor activity, inhibits p-EGFR and p-AKT, and inhibits the proliferation of A549, PC-9, and A431 cells. YS-67 blocks cell cycle progression and induces apoptosis in the G ₀ /G ₁ phase, and can be used in the study of non-small-cell lung cancer.
Targets(IC ₅₀)	Apoptosis,EGFR,Akt

Solubility Information

Solubility	DMSO: 10 mg/mL (19.13 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: 1 mg/mL (1.91 mM),Sonication is recommended. <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	1.9134 mL	9.5668 mL	19.1336 mL
5 mM	0.3827 mL	1.9134 mL	3.8267 mL
10 mM	0.1913 mL	0.9567 mL	1.9134 mL
50 mM	0.0383 mL	0.1913 mL	0.3827 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

He P, et al. Design, synthesis and biological evaluation of structurally new 4-indolyl quinazoline derivatives as highly potent, selective and orally bioavailable EGFR inhibitors. *Bioorg Chem.* 2024 Jan;142:106970.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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