

TNIK-IN-5

Chemical Properties

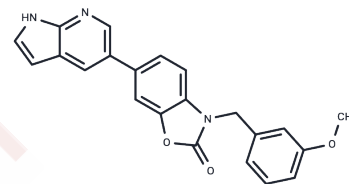
CAS No. : 2754265-66-0

Formula: C₂₂H₁₇N₃O₃

Molecular Weight: 371.39

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	TNIK-IN-5 is a potent TNIK inhibitor (IC ₅₀ = 0.05 μM). TNIK-IN-5 potently inhibits Wnt signaling in intact cells. TNIK-IN-5 exhibits excellent in vitro anti-colorectal cancer activity.
Targets(IC ₅₀)	Wnt/beta-catenin

Solubility Information

Solubility	DMSO: 10 mg/mL (26.93 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (2.69 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	2.6926 mL	13.4629 mL	26.9259 mL
5 mM	0.5385 mL	2.6926 mL	5.3852 mL
10 mM	0.2693 mL	1.3463 mL	2.6926 mL
50 mM	0.0539 mL	0.2693 mL	0.5385 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

Shengyong Yang, Linli Li. Preparation of TNIK inhibitor compounds as antitumor agents. CN113773316A

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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