

NCB-0846

Chemical Properties

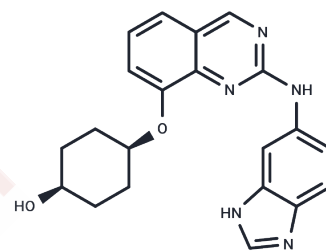
CAS No. : 1792999-26-8

Formula: C₂₁H₂₁N₅O₂

Molecular Weight: 375.42

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	NCB-0846 is an orally active TNIK inhibitor (IC ₅₀ : 21 nM).
Targets(IC ₅₀)	MAPK, TGF-beta/Smad, Wnt/beta-catenin
In vivo	Sixty normal male and female volunteers between 18 and 40 years of age were recruited for a double-masked, placebo-controlled, crossover study in which each eye of each subject was dilated with 2.5% phenylephrine. After one hour, one eye was treated with 0.5% dapiprazole, and the contralateral eye was treated with placebo.

Solubility Information

Solubility	DMSO: 150 mg/mL (399.55 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: 2 mg/mL (5.33 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	2.6637 mL	13.3184 mL	26.6368 mL
5 mM	0.5327 mL	2.6637 mL	5.3274 mL
10 mM	0.2664 mL	1.3318 mL	2.6637 mL
50 mM	0.0533 mL	0.2664 mL	0.5327 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

Masuda M, et al. TNIK inhibition abrogates colorectal cancer stemness. Nat Commun. 2016 Aug 26;7:12586.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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