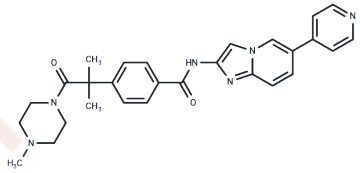
Data Sheet (Cat.No.T14980)

TargetMol

CLK-IN-T3

Chemical Properties



CAS No. :	2109805-56-1
Formula:	C28H30N6O2
Molecular Weight:	482.58
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	CLK-IN-T3 is an inhibitor of CLK1, CLK2, and CLK3 with IC50s of 0.67, 15, and 110 nM. CLK-IN-T3 exhibits anti-cancer activity.
Targets(IC50)	CDK,DYRK
In vitro	CLK-IN-T3 (0.5, 1.0 μM) decreases the phosphorylation of CLK-targeted SR proteins and CLK proteins increase slightly. CLK-IN-T3 (0.1, 0.5, 1.0, 5.0, 10.0 μM) results in mild cell cycle arrest at the G2/M boundary with a long-duration of 24 h. CLK-IN-T3 inhibits DYRK1A and DYRK1B with IC50s of 260 and 230 nM[1].

Solubility Information

Solubility	DMSO: 4.5 mg/mL (9.32 mM),Sonication and heating are 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 (2.07 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0722 mL	10.361 mL	20.722 mL
5 mM	0.4144 mL	2.0722 mL	4.1444 mL
10 mM	0.2072 mL	1.0361 mL	2.0722 mL
50 mM	0.0414 mL	0.2072 mL	0.4144 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

Funnell T, et al. CLK-dependent exon recognition and conjoined gene formation revealed with a novel smallmolecule inhibitor. Nat Commun. 2017 Feb 23;8(1):7.