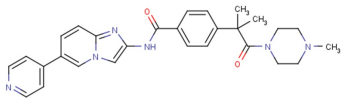
Data Sheet (Cat.No.T14980)

TargetMol
A DRUG SCREENING EXPERT

CLK-IN-T3

Chemical Properties



CAS No.:	2109805-56-1
Formula:	C28H30N6O2
Molecular Weight:	482.58
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	CLK-IN-T3 is a potent inhibitor of CDC-like kinase (CLK) (IC50s: 0.67 nM, 15 nM, and 110 nM for CLK1, CLK2, and CLK3 protein kinases) with anti-cancer activity.
Targets(IC_{50})	CLK1: 0.67 nM CLK2: 15 nM CLK3: 110 nM
In vitro	CLK-IN-T3 (0.5-1.0 μM; 6 hours) reduces phosphorylation of CLK-targeted SR proteins and CLK proteins increase slightly. CLK-IN-T3 (0.1-10.0 μM; 24 hours) causes mild cell cycle arrest at the G2/M boundary with long-duration (24 h). CLK-IN-T3 has IC50s of 260 nM and 230 nM for DYRK1A and DYRK1B, respectively.

Solubility Information

Solubility	DMSO: 4.83 mg/mL (10.01 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.072 mL	10.361 mL	20.722 mL
5 mM	0.414 mL	2.072 mL	4.144 mL
10 mM	0.207 mL	1.036 mL	2.072 mL
50 mM	0.041 mL	0.207 mL	0.414 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

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Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481