

T025

Chemical Properties

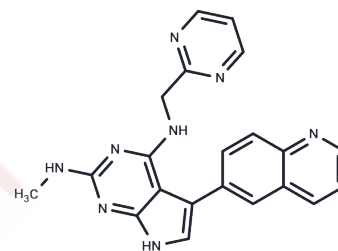
CAS No. : 2407433-00-3

Formula: C₂₁H₁₈N₈

Molecular Weight: 382.42

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	T025 is a pan CLK inhibitor with Kds of 4.8, 0.096, 6.5, 0.61, and 0.074 nM for CLK1-4, respectively. T025 displays anti-proliferative activities with IC50s of 30-300 nM in hematological and solid cancer cell lines. T025 can be used in studies about MYC-driven diseases.
Targets(IC50)	Apoptosis,CDK,DYRK
In vitro	In MDA-MB-468 cells, T025 (1-1000 nM) dose-dependently suppresses cell growth and reduces pCLK2 and CLK2 phosphorylation levels[1].
In vivo	In Balb/c nude mice, gavage administration of T025 (50 mg/kg) suppresses tumor growth and < 10% nadir body weight loss. Gavage administration of T025 (50 mg/kg) inhibits the CLK-dependent phosphorylation and decreases the RPS6KB1 exon 7 and BCLAF1 exon 11 percentage splice-in values[1].

Solubility Information

Solubility	DMSO: 37.5 mg/mL (98.06 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6149 mL	13.0746 mL	26.1493 mL
5 mM	0.523 mL	2.6149 mL	5.2299 mL
10 mM	0.2615 mL	1.3075 mL	2.6149 mL
50 mM	0.0523 mL	0.2615 mL	0.523 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

Iwai K, et al. Anti-tumor efficacy of a novel CLK inhibitor via targeting RNA splicing and MYC-dependent vulnerability. *EMBO Mol Med.* 2018 Jun;10(6). pii: e8289.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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