

ZT-12-037-01

Chemical Properties

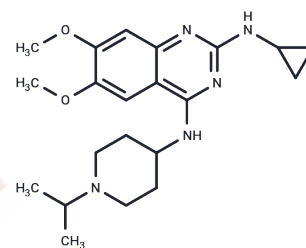
CAS No. : 2328073-61-4

Formula: C₂₁H₃₁N₅O₂

Molecular Weight: 385.5

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	Zt-12-037-01 is a ATP competitive STK19 inhibitor(IC50 values of 23.96 nM and 27.94 nM for STK19 (WT) and STK19 (D89N),respectively).
Targets(IC50)	Serine Protease,Ras
In vitro	ZT-12-037-01 significantly inhibits mutant NRAS-STK19-driven melanocyte colony formation and proliferation.
In vivo	ZT-12-037-01 as a specific STK19-targeted inhibitor and it effectively blocks oncogenic NRAS-driven melanocyte malignant transformation and melanoma growth in vivo.
Animal Research	ZT-12-037-01 (injection subcutaneously; 25-50 mg/kg; once daily; 21 days) inhibits growth of SK-MEL-2 xenograft melanoma and the sections of tumors indicates induction of apoptosis by increasing cleaved caspase-3.

Solubility Information

Solubility	DMSO: 41 mg/mL (106.36 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	2.594 mL	12.9702 mL	25.9403 mL
5 mM	0.5188 mL	2.594 mL	5.1881 mL
10 mM	0.2594 mL	1.297 mL	2.594 mL
50 mM	0.0519 mL	0.2594 mL	0.5188 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

Yin C, Zhu B, Zhang T, et al. Pharmacological Targeting of STK19 Inhibits Oncogenic NRAS-Driven Melanomagenesis[J]. Cell. 2019 Feb 21;176(5):1113-1127.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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