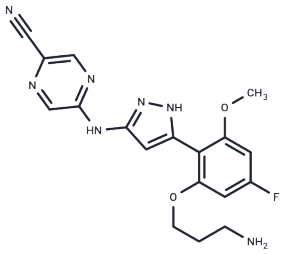
Data Sheet (Cat.No.T37098)

TargetMol

Chk1-IN-5

Chemical Properties



CAS No. : 2120398-39-0

Formula: C18H18FN7O2

Molecular Weight: 383.38

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	Chk1-IN-5 is a highly effective inhibitor of checkpoint kinase 1 (Chk1), which hinders the phosphorylation of Chk1 and effectively suppresses tumor growth in a colon cancer xenograft model[1].
Targets(IC50)	Others,Chk
In vitro	Chk1-IN-5 (compound 3; concentrations of 0.4, 1.2, 3.7, 11.1, 33.3, and 100 nM) effectively inhibits Chk1 phosphorylation in HT-29 colon cells[1].
In vivo	Chk1-IN-5 (compound 3; 40 mg/kg; IV; twice a week for 21 days) inhibits tumor growth in Baib/c nude mice with HT-29 colon cancer cells. Chk1-IN-5 (10 mg/kg; via tail vein intravenous injection) demonstrates a longer half-life (T1/2=3.8 hours) and higher systemic exposure (CL=2.3 L/hrkg; Vss=6.4 L/kg; AUC=4531 ngmlh)[1]. [Animal Model: Baib/c nude mice with HT-29 colon cancer cells][1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6084 mL	13.0419 mL	26.0838 mL
5 mM	0.5217 mL	2.6084 mL	5.2168 mL
10 mM	0.2608 mL	1.3042 mL	2.6084 mL
50 mM	0.0522 mL	0.2608 mL	0.5217 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

Xiong Cai, et al. 3,5-disubstituted pyrazoles useful as checkpoint kinase 1 (chk1) inhibitors, and their preparations and applications. WO2017132928A1.