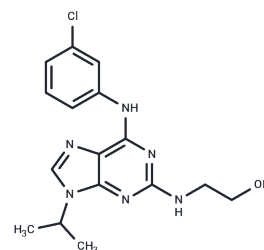


NG 52

Chemical Properties

CAS No. : 212779-48-1
 Formula: C₁₆H₁₉ClN₆O
 Molecular Weight: 346.81
 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	NG 52 (NG-52) is a cell-permeable, reversible, and ATP-compatible inhibitor of the cell cycle-regulating kinase Cdc28p and the related Pho85p kinase.
Targets(IC50)	CDK

Solubility Information

Solubility	DMSO: 50 mg/mL (144.17 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.77 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8834 mL	14.4171 mL	28.8342 mL
5 mM	0.5767 mL	2.8834 mL	5.7668 mL
10 mM	0.2883 mL	1.4417 mL	2.8834 mL
50 mM	0.0577 mL	0.2883 mL	0.5767 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

Wang WL, et al. Pharmacologically inhibiting phosphoglycerate kinase 1 for glioma with NG52. Acta Pharmacol Sin. 2021 Apr;42(4):633-640.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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