

NC03

## Chemical Properties

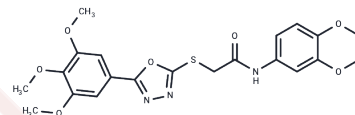
CAS No. : 568558-66-7

Formula: C<sub>21</sub>H<sub>21</sub>N<sub>3</sub>O<sub>7</sub>S

Molecular Weight: 459.47

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	NC03 is an effective PI4K2A inhibitor that reduces intracellular PI4P pools in the Golgi apparatus and endosomes, with PI4K2A being the primary source of PI4P. NC03 may be utilised in cancer research.
Targets(IC50)	PI4K

## Solubility Information

Solubility	DMSO: 80 mg/mL (174.11 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (7.18 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	2.1764 mL	10.8821 mL	21.7642 mL
5 mM	0.4353 mL	2.1764 mL	4.3528 mL
10 mM	0.2176 mL	1.0882 mL	2.1764 mL
50 mM	0.0435 mL	0.2176 mL	0.4353 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

Sengupta N, et al. A large scale high-throughput screen identifies chemical inhibitors of phosphatidylinositol 4-kinase type II alpha. J Lipid Res. 2019 Mar;60(3):683-693.

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