

APY0201

## Chemical Properties

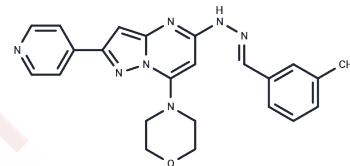
CAS No. : 1232221-74-7

Formula: C<sub>23</sub>H<sub>23</sub>N<sub>7</sub>O

Molecular Weight: 413.48

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	APY0201 is a effective, highly specific, ATP-competitive PIKfyve inhibitor (IC <sub>50</sub> : 5.2 nM). It can interrupt the conversion of phosphatidylinositol 3-phosphate (PtdIns3P) to PtdIns(3, 5)P <sub>2</sub> .
Targets(IC <sub>50</sub> )	Interleukin,PI3K

## Solubility Information

Solubility	DMSO: 1 mg/mL (2.42 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: 1 mg/mL (2.42 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	2.4185 mL	12.0925 mL	24.185 mL
5 mM	0.4837 mL	2.4185 mL	4.837 mL
10 mM	0.2418 mL	1.2092 mL	2.4185 mL
50 mM	0.0484 mL	0.2418 mL	0.4837 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

Hayakawa N, et al. Bioorg Med Chem. 2014 Jun 1;22(11):3021-9.

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