

## CMP-5

## Chemical Properties

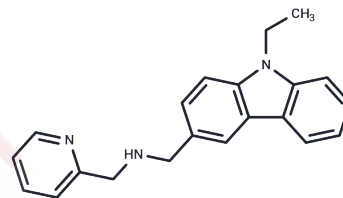
CAS No. : 880813-42-3

Formula: C<sub>21</sub>H<sub>21</sub>N<sub>3</sub>

Molecular Weight: 315.41

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	CMP-5 is a PRMT5 inhibitor with antiviral activity, inhibits PRMT5 methyltransferase activity, and can be used in the study of SARS virus infection.
Targets(IC50)	Antiviral,Histone Methyltransferase
In vitro	In 60A cells, CMP-5 (40 µM; 24 hours) inhibited the protein levels of p-BTK and pY(416) SRC[1].

## Solubility Information

Solubility	DMSO: 100 mg/mL (317.05 mM),Sonification 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: 5 mg/mL (15.85 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

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	1mg	5mg	10mg
1 mM	3.1705 mL	15.8524 mL	31.7048 mL
5 mM	0.6341 mL	3.1705 mL	6.341 mL
10 mM	0.317 mL	1.5852 mL	3.1705 mL
50 mM	0.0634 mL	0.317 mL	0.6341 mL

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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

Alinari L, et al. Selective inhibition of protein arginine methyltransferase 5 blocks initiation and maintenance of B-cell transformation. *Blood*. 2015 Apr 16;125(16):2530-43.

Webb LM, et al. PRMT5-Selective Inhibitors Suppress Inflammatory T Cell Responses and Experimental Autoimmune Encephalomyelitis. *J Immunol*. 2017 Feb 15;198(4):1439-1451.

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