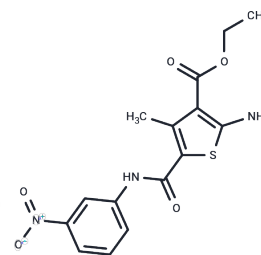


DC-S239

## Chemical Properties

CAS No. : 303141-21-1  
 Formula: C<sub>15</sub>H<sub>15</sub>N<sub>3</sub>O<sub>5</sub>  
 Molecular Weight: 349.36  
 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	DC-S239 (DC-S239) is a selective inhibitor of histone methyltransferase SETD7 (IC <sub>50</sub> = 4.59 μM) with anticancer activity.
Targets(IC <sub>50</sub> )	Histone Methyltransferase
In vitro	DC-S239 (0-100 μM) inhibits the proliferation of MCF7, HL60 and MV4-11 cells in a dose-dependent manner with the IC <sub>50</sub> values of 10.93 μM and 16.43 μM, respectively. DC-S239 inhibits DNMT1, DOT1L, EZH2, NSD1, SETD8 and G9a by less than 45%, whereas it inhibits SET7 by 90% at concentrations of 100 μM[1].

## Solubility Information

Solubility	DMSO: 5.5 mg/mL (15.74 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8624 mL	14.3119 mL	28.6238 mL
5 mM	0.5725 mL	2.8624 mL	5.7248 mL
10 mM	0.2862 mL	1.4312 mL	2.8624 mL
50 mM	0.0572 mL	0.2862 mL	0.5725 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

Fanwang Meng, et al. Discovery and Optimization of Novel, Selective Histone Methyltransferase SET7 Inhibitors by Pharmacophore- and Docking-Based Virtual Screening. J Med Chem. 2015 Oct 22;58(20):8166-81.

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