

DS-437

## Chemical Properties

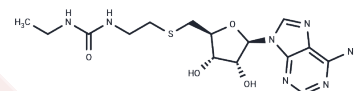
CAS No. : 1674364-87-4

Formula: C<sub>15</sub>H<sub>23</sub>N<sub>7</sub>O<sub>4</sub>S

Molecular Weight: 397.45

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	DS-437 is a dual PRMT5/7 inhibitor with IC <sub>50</sub> values of 6 μM and also inhibits DNMT3A and DNMT3B with IC <sub>50</sub> values of 52 μM and 62 μM, respectively. Additionally, DS-437 inhibits the methylation of FOXP3.
Targets(IC <sub>50</sub> )	Others, Histone Methyltransferase
In vitro	DS-437 increased total CD8+ and CD8+ PD-1+ T cells [2]. DS-437 was able to inhibit the methylation of an H4[1-24] peptide by the PRMT5-MEP50 complex under balanced conditions (cofactor and substrate concentrations set at their respective K <sub>m</sub> values) in a dose-dependent manner (IC <sub>50</sub> : 5.9 μM) [1].
In vivo	The combination of DS-437 and the anti-p185erbB2/neu antibody 4D5 had even more dramatic effects. DS-437 (10 mg/kg; i.p.; 5 times a week) has some beneficial effects on inhibiting tumor growth [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.516 mL	12.5802 mL	25.1604 mL
5 mM	0.5032 mL	2.516 mL	5.0321 mL
10 mM	0.2516 mL	1.258 mL	2.516 mL
50 mM	0.0503 mL	0.2516 mL	0.5032 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

Smil D, et al. Discovery of a Dual PRMT5-PRMT7 Inhibitor. ACS Med Chem Lett. 2015 Mar 2;6(4):408-12.

Nagai Y, et al. PRMT5 Associates With the FOXP3 Homomer and When Disabled Enhances Targeted p185erbB2/neu Tumor Immunotherapy. Front Immunol. 2019 Feb 8;10:174.

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