

MS8511

## Chemical Properties

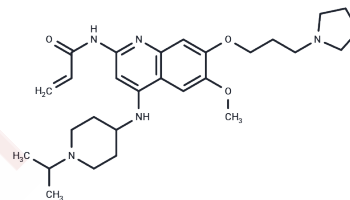
CAS No. : 2866408-21-9

Formula: C<sub>28</sub>H<sub>41</sub>N<sub>5</sub>O<sub>3</sub>

Molecular Weight: 495.66

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	MS8511, a selective covalent irreversible inhibitor of G9a/GLP, targets a cysteine residue at the substrate binding site, displaying IC <sub>50</sub> values of 100 nM (G9a) and 140 nM (GLP), alongside K <sub>d</sub> values of 44 nM (G9a) and 46 nM (GLP). This compound effectively reduces cellular H3K9me <sub>2</sub> levels and boosts antiproliferation activity, making it applicable in cancer research involving brain, breast, ovarian, lung, bladder, melanoma, and colorectal cancers, as well as studies on Alzheimer's disease (AD), sickle cell disease, and Prader-Willi syndrome (PWS) [1].
Targets(IC <sub>50</sub> )	Others, Histone Methyltransferase

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0175 mL	10.0876 mL	20.1751 mL
5 mM	0.4035 mL	2.0175 mL	4.035 mL
10 mM	0.2018 mL	1.0088 mL	2.0175 mL
50 mM	0.0404 mL	0.2018 mL	0.4035 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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