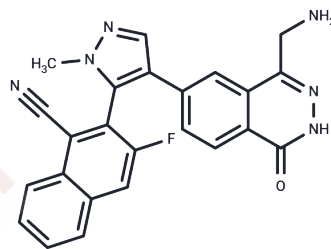


MRTX9768

Chemical Properties

CAS No. : 2629314-68-5
 Formula: C₂₄H₁₇FN₆O
 Molecular Weight: 424.43
 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 | MRTX-9768 is a synthetic lethal-based inhibitor designed to bind the PRMT5-MTA complex and selectively target MTAP/CDKN2A-deleted tumors. |
| Targets(IC50) | Histone Methyltransferase |
| In vitro | MRTX-9768, a potent inhibitor of SDMA and cell proliferation in HCT116 MTAP-del cells (SDMA IC ₅₀ 3 nM; prolifer. IC ₅₀ 11 nM) with marked selectivity over HCT116 MTAP-WT cells (SDMA IC ₅₀ 544 nM; prolifer. IC ₅₀ 861 nM). |
| In vivo | In xenograft studies, oral administration of MRTX-9768 demonstrates dose-dependent inhibition of SDMA in MTAP-del tumors, with less SDMA modulation observed in bone marrow[1]. |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 35 mg/mL (82.46 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: 2 mg/mL (4.71 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 | 2.3561 mL | 11.7805 mL | 23.561 mL |
| 5 mM | 0.4712 mL | 2.3561 mL | 4.7122 mL |
| 10 mM | 0.2356 mL | 1.1781 mL | 2.3561 mL |
| 50 mM | 0.0471 mL | 0.2356 mL | 0.4712 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

Christopher R. Smith, et al. Abstract LB003: Fragment based discovery of MRTX9768, a synthetic lethal-based inhibitor designed to bind the PRMT5-MTA complex and selectively target MTAP/CDKN2A-deleted tumors. *Cancer Res* 1 July 2021; 81 (13_Supplement): LB003.

Yingqing Chen, et al. Targeting protein arginine methyltransferase 5 in cancers: Roles, inhibitors and mechanisms. *Biomed Pharmacother.* 2021 Oct 4;144:112252.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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