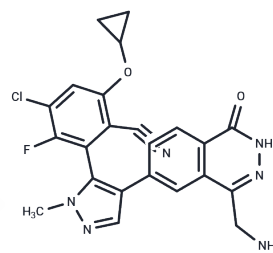


(S)-MRTX-1719

Chemical Properties

CAS No. : 2630904-44-6
 Formula: C₂₃H₁₈ClFN₆O₂
 Molecular Weight: 464.88
 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	(S)-MRTX-1719 is the S-enantiomer of Navlimetostat and acts as a PRMT5/MTA complex inhibitor with an IC ₅₀ value of 7070 nM, enabling selective modulation of arginine methylation, epigenetic regulation, and transcriptional control, (S)-MRTX-1719 is widely applied in cancer epigenetics research to investigate PRMT5-dependent tumor growth and therapeutic vulnerabilities.
Targets(IC ₅₀)	Histone Methyltransferase
In vitro	In MTAP-deleted cancer cells, (S)-MRTX-1719 exhibited MTA-dependent binding to PRMT5 and inhibited the methylation of cellular substrates (specifically SDMA) with an IC ₅₀ of < 10 nM [1].
In vivo	In xenograft models such as HCT116 MTAP-/- and LU99, daily oral administration of (S)-MRTX-1719 resulted in tumor regressions. The efficacy correlates with the reduction of SDMA levels in tumor tissue. In contrast to early PRMT5 inhibitors, (S)-MRTX-1719 did not cause bone marrow toxicity at efficacious doses, as normal hematopoietic cells do not accumulate MTA, preventing the inhibition of PRMT5 in these tissues [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1511 mL	10.7555 mL	21.5109 mL
5 mM	0.4302 mL	2.1511 mL	4.3022 mL
10 mM	0.2151 mL	1.0755 mL	2.1511 mL
50 mM	0.043 mL	0.2151 mL	0.4302 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

Smith C R, et al. Fragment-based discovery of MRTX1719, a synthetic lethal inhibitor of the PRMT5• MTA complex for the treatment of MTAP-deleted cancers[J]. Journal of Medicinal Chemistry, 2022, 65(3): 1749-1766.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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