

MRTX0902

Chemical Properties

CAS No. : 2654743-22-1

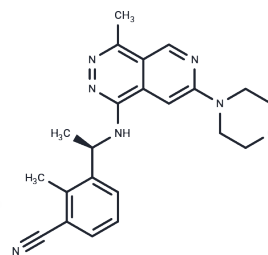
Formula: C₂₂H₂₄N₆O

Molecular Weight: 388.47

Store at low temperature

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	MRTX0902 is an effective and high selective inhibitor of SOS1 with an IC ₅₀ of 46 nM and a K _i of 2 nM.
Targets(IC ₅₀)	Raf,Ras
In vitro	In the MIA PaCa-2 xenograft model of mice, MRTX0902 (25 and 50 mg/kg; p.o.) shows anti-tumor effects and reduces tumor growth by 41% and 53%, respectively[1].

Solubility Information

Solubility	DMSO: 10 mg/mL (25.74 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1 mg/mL (2.57 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	2.5742 mL	12.871 mL	25.742 mL
5 mM	0.5148 mL	2.5742 mL	5.1484 mL
10 mM	0.2574 mL	1.2871 mL	2.5742 mL
50 mM	0.0515 mL	0.2574 mL	0.5148 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

Ketcham JM, et al. Design and Discovery of MRTX0902, a Potent, Selective, Brain-Penetrant, and Orally Bioavailable Inhibitor of the SOS1:KRAS Protein-Protein Interaction. *J Med Chem.* 2022 Jul 28;65(14):9678-9690.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481