

TNG908

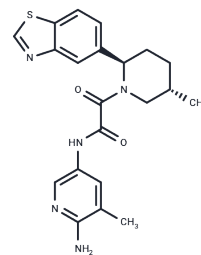
Chemical Properties

CAS No. : 2760481-53-4

Formula: C₂₁H₂₃N₅O₂S

Molecular Weight: 409.51

Storage: Store at low temperature, Keep away from direct sunlight
 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	TNG908 is an orally active and selective MTAP-co-PRMT5 inhibitor that crosses the blood-brain barrier and kills MTAP-deficient cancers.
Targets(IC ₅₀)	Histone Methyltransferase
In vitro	In SDMA, HAP1 MTAP WT, and MTAP-null In-Cell, treatment with TNG908 (0-10µM; 24 hours) resulted in an IC ₅₀ value of 0.009µM for PRMT5[1].
In vivo	TNG908 (1-120 mg/kg, p.o. or i.v.) demonstrates dose-dependent, MTAPnull-selective antitumor activity in xenograft models[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (195.36 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: 3.3 mg/mL (8.06 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	2.4419 mL	12.2097 mL	24.4194 mL
5 mM	0.4884 mL	2.4419 mL	4.8839 mL
10 mM	0.2442 mL	1.221 mL	2.4419 mL
50 mM	0.0488 mL	0.2442 mL	0.4884 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

K. Briggs, et al. TNG908 is a brain-penetrant, MTA-cooperative PRMT5 inhibitor for the treatment of MTAP-deleted cancer. MOLECULAR TARGETED AGENTS 2 | VOLUME 174, SUPPLEMENT 1, S84, OCTOBER 2022.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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