Proteins

TNG908

Cat. No.: HY-148419 CAS No.: 2760481-53-4 Molecular Formula: $C_{21}H_{23}N_5O_2S$ Molecular Weight: 409.5

Histone Methyltransferase Target:

Pathway: **Epigenetics**

Storage: Powder -20°C 3 years

4°C 2 years

-80°C 6 months In solvent

> -20°C 1 month

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (244.20 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg	
Preparing Stock Solutions	1 mM	2.4420 mL	12.2100 mL	24.4200 mL	
	5 mM	0.4884 mL	2.4420 mL	4.8840 mL	
	10 mM	0.2442 mL	1.2210 mL	2.4420 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description TNG908 is a MTAP synergistic PRMT5 inhibitor. TNG908 crosses the blood-brain barrier and is orally active. TNG908 could be used in cancer research^[1].

IC₅₀ & Target PRMT5

TNG908 (0-10 μ M, 24 h) is 15 times more selective for MTAP^{null} cell lines than MTAP^{WT} cell lines, and the stability of human In Vitro

liver microsomes is C< sub>lint=14 μL/min/mg^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[1]

Cell Line:	SDMA cell⊠HAP1 MTAP WT and MTAP-null In-Cell
Concentration:	0-10 μΜ
Incubation Time:	24 h

	Result:	Had an IC $_{50}$ value of 0.009 μM for PRMT5 in SDMA cells.							
In Vivo	xenograft mouse	TNG908 (1-120 mg/kg twice daily for 21 days, p.o. or i.v.) A promotes tumor regression in LU99 NSCLC cell line-derived xenograft mouse model ^[1] . Pharmacokinetic Analysis in SD Rats ^[1]							
	Route	Dose (mg/kg)	clearance (mL/min/kg)	V _{ss_obs} (L/kg)	T _{1/2} (h)	C _{max} (μg/mL)	AUC _{INF} (μ g·h/mL)		
	p.o.	1	38.2	1.5	2	/	/		
	p.o.	3	/	/	/	0.6	2.5		
	MCE has not ind	ependently confirm	ed the accuracy o	of these methods. Th	ney are for refer	rence only.			

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

 $\hbox{E-mail: tech@MedChemExpress.com}$

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA