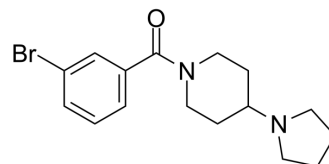


UNC926

Cat. No.:	HY-16510		
CAS No.:	1184136-10-4		
Molecular Formula:	C ₁₆ H ₂₁ BrN ₂ O		
Molecular Weight:	337.25		
Target:	Epigenetic Reader Domain		
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 41.67 mg/mL (123.56 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9652 mL	14.8258 mL	29.6516 mL
	5 mM	0.5930 mL	2.9652 mL	5.9303 mL
	10 mM	0.2965 mL	1.4826 mL	2.9652 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (7.41 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.41 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.41 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

UNC926 is a methyl-lysine (Kme) reader domain inhibitor that inhibits L3MBTL1 with an IC₅₀ of 3.9 μM^[1].

IC₅₀ & Target

IC₅₀: 3.9 μM (L3MBTL1), 3.2 μM (L3MBTL3), 15.6 μM (L3MBTL4)^[1]

In Vitro

UNC926 also exhibits a low micromolar affinity for the close homolog, L3MBTL3 (IC₅₀ of 3.2 μM), with a decrease in affinity for the other MBT domains and no binding to CBX7^[1].

UNC926 (1-25 μM) inhibits binding of the 3xMBT domain to H4K20me1. UNC926 inhibits the association of L3MBTL13xMBT

with the appropriate histonepeptides in a dose-dependent manner. UNC926 does not have an effect on the binding of 53BP1 to H4K20me1, demonstrating specificity of UNC926 for L3MBTL1 over 53BP1^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Herold JM, et al. Structure–activity relationships of methyl-lysine reader antagonists. *MedChemComm*. 2012;3(45):45–51.

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

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