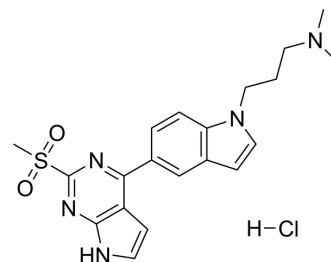


DC-BPi-11 hydrochloride

Cat. No.:	HY-141703A		
Molecular Formula:	C ₂₀ H ₂₄ ClN ₅ O ₂ S		
Molecular Weight:	433.95		
Target:	Epigenetic Reader Domain		
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 10 mg/mL (23.04 mM); ultrasonic and warming and heat to 60°C						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.3044 mL	11.5221 mL	23.0441 mL
				5 mM	0.4609 mL	2.3044 mL	4.6088 mL
				10 mM	0.2304 mL	1.1522 mL	2.3044 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (2.30 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (2.30 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	DC-BPi-11 hydrochloride is an inhibitor of bromodomain PHD finger transcription factor (BPTF), with an IC ₅₀ value of 698 nM. DC-BPi-11 hydrochloride shows remarkable inhibition against leukemia cell proliferation ^[1] .
IC ₅₀ & Target	698 nM (BPTF) ^[1]
In Vitro	DC-BPi-11 hydrochloride (0.1 nM-1 μM; 24 h) inhibits BPTF in human leukemia MV-4-11 cells with an EC ₅₀ value of 120 nM ^[1] . DC-BPi-11 hydrochloride (0.01 μM-100 μM; 24 h) significantly inhibits the proliferation of human leukemia MV-4-11 cells (IC ₅₀ = 0.89 μM), and (2.5-20 μM; 24 h) decreases downstream oncogene expression ^[1] . DC-BPi-11 hydrochloride (0.6-50 μM; 24 h) dose-dependently decreases c-Myc protein level ^[1] . DC-BPi-11 hydrochloride is safety and shows minimal effects on normal cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lu T, et al. Discovery of High-Affinity Inhibitors of the BPTF Bromodomain. J Med Chem. 2021 Aug 26;64(16):12075-12088.

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

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