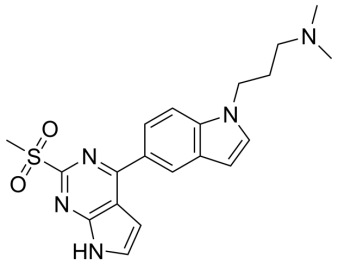
DC-BPi-11

Cat. No.:	HY-141703
CAS No.:	2758411-61-7
Molecular Formula:	$C_{20}H_{23}N_5O_2S$
Molecular Weight:	397.49
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DC-BPi-11 is an inhibitor of bromodomain PHD finger transcription factor (BPTF), with an IC_{50} value of 698 nM. DC-BPi-11 shows remarkable inhibition against leukemia cell proliferation[1].
IC_{50} & Target	698 nM (BPTF)[1]
In Vitro	DC-BPi-11 (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 (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 (0.6-50 μM; 24 h) dose-dependently decreases c-Myc protein level[1]. DC-BPi-11 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.

Western Blot Analysis[1]

Cell Line:	Human leukemia MV-4-11 cells
Concentration:	0.6 μM, 1.8 μM, 5.6 μM, 16.6 μM, and 50 μM
Incubation Time:	24 hours
Result:	Resulted depletion of c-Myc in a dose-dependent manner.

Apoptosis Analysis[1]

Cell Line:	Human leukemia MV-4-11 cells
Concentration:	5 μM, 10 μM, 20 μM
Incubation Time:	24 hours
Result:	Induced cell apoptosis by arresting cell cycle at G1 phase.

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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA