XX-650-23

Cat. No.: HY-119769

CAS No.: 117739-40-9

Molecular Formula: $C_{18}H_{12}N_2O_2$

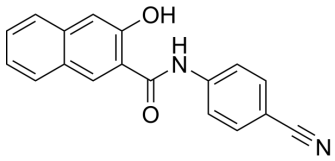
Molecular Weight: 288.3

Target: Epigenetic Reader Domain

Pathway: Epigenetics

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (346.86 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.4686 mL	17.3430 mL	34.6861 mL
	5 mM	0.6937 mL	3.4686 mL	6.9372 mL
	10 mM	0.3469 mL	1.7343 mL	3.4686 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (8.67 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

XX-650-23 is a potent CREB inhibitor. XX-650-23inhibits CREB function through disruption of CBP-CREB interaction. XX-650-23 can be used for AML research[1].

In Vitro

XX-650-23 (870 nM-2.3 μM; 48 hours) inhibits AML cell growth, the IC_{50} values are 870 nM, 910 nM, 2.0 μM and 2.3 μM for HL-60, KG-1, MOLM-13, and MV-4-11,respectively[1].

XX-650-23(5 μM; 6 or 24 hours) causes a specific decrease in H3K27 acetylation and is not a general inhibitor of acetyltransferase activity[1].

XX-650-23 (2 μM; 72 hours) elicits apoptosis through the intrinsic apoptosis pathway, with activation of caspase-3 and detectable caspase-9 cleavage. It also leads to the downregulation of Mcl-1 and bcl-2[1].

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

Western Blot Analysis[1]

Cell Line:	KG-1 cells
Concentration:	5 μM
Incubation Time:	6 or 24 hours
Result:	Decreased H3K27 acetylation expression.

Apoptosis Analysis[1]

Cell Line:	HL-60 cells
Concentration:	2 μM
Incubation Time:	72 hours
Result:	Induced apoptosis in AML cells.

REFERENCES

[1]. B Mitton, et al. Small molecule inhibition of cAMP response element binding protein in human acute myeloid leukemia cells. Leukemia. 2016 Dec;30(12):2302-2311.

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