NSC 694623

Cat. No.: HY-147290

CAS No.: 907957-34-0

Molecular Formula: $C_{16}H_{16}N_2OS$

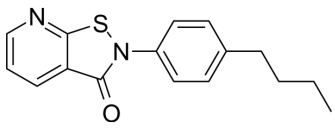
Molecular Weight: 284.38

Target: Histone Acetyltransferase

Pathway: Epigenetics

Storage:

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (439.55 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5164 mL	17.5821 mL	35.1642 mL
	5 mM	0.7033 mL	3.5164 mL	7.0328 mL
	10 mM	0.3516 mL	1.7582 mL	3.5164 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: ≥ 2.08 mg/mL (7.31 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (7.31 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

NSC 694623 is a potent histone acetyltransferase (HAT) inhibitor with an IC_{50} value of 15.9 μM for recombinant HAT p300/CBP-associated factor (PCAF). NSC 694623 has antiproliferative activity against certain cancer cells. NSC 694623 can be used for researching anticancer[1].

IC_{50} & Target

PCAF
15.9 μM (IC_{50})

In Vitro

NSC 694623 has antiproliferative activity against SK-N-SH with an IC_{50} of 8.93 μM, and inhibits 21% of HCT116 at 25 μM[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Furdas SD, et al. Synthesis and biological testing of novel pyridoisothiazolones as histone acetyltransferase inhibitors. Bioorg Med Chem. 2011 Jun 15;19(12):3678-89.

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