

NSC 694621

## Chemical Properties

CAS No. : 104857-29-6

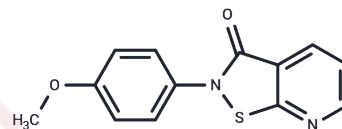
Formula: C<sub>13</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>S

Molecular Weight: 258.3

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	NSC 694621 is a PCAF and histone acetyltransferase (HAT) inhibitor that forms a covalent bond with Cys574, the active site of PCAF, thereby irreversibly inhibiting its acetyltransferase activity, and is able to inhibit the proliferation of SK-N-SH and HCT116 cells, which has anticancer potential.
Targets(IC50)	Epigenetic Reader Domain,Histone Acetyltransferase
In vitro	NSC 694621 inhibits PCAF HAT activity with an IC <sub>50</sub> of 5.19 μM for H3 and 1.59 μM for H4, showing stronger inhibition for H4[1]. NSC 694621 shows moderate antiproliferative effects, with a GI <sub>50</sub> of 19.2 ± 1.22 μM in SK-N-SH neuroblastoma cells. In HCT116 colorectal cancer cells, NSC 694621 inhibits growth by 29% at 25 μM[1].

## Solubility Information

Solubility	DMSO: 1 mg/mL (3.87 mM),Sonication and heating are recommended (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8715 mL	19.3573 mL	38.7147 mL
5 mM	0.7743 mL	3.8715 mL	7.7429 mL
10 mM	0.3871 mL	1.9357 mL	3.8715 mL
50 mM	0.0774 mL	0.3871 mL	0.7743 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Furdas SD, Shekfeh S, Bissinger EM, Wagner JM, Schlimme S, Valkov V, Hendzel M, Jung M, Sippl W. 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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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481