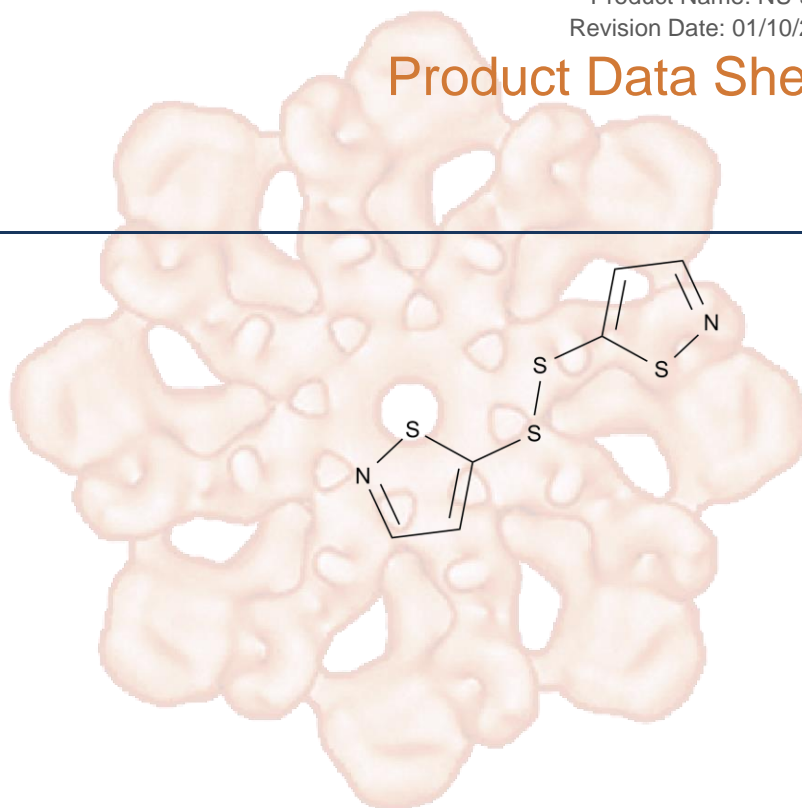


# Product Data Sheet

## NU 9056

<b>Cat. No.:</b>	A4492
<b>CAS No.:</b>	
<b>Formula:</b>	C <sub>6</sub> H <sub>4</sub> N <sub>2</sub> S <sub>4</sub>
<b>M.Wt:</b>	232.37
<b>Synonyms:</b>	
<b>Target:</b>	Chromatin/Epigenetics
<b>Pathway:</b>	Histone Acetyltransferases
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

<10mg/ml in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass	1mg	5mg	10mg
	1 mM		4.3035 mL	21.5174 mL	43.0348 mL
	5 mM		0.8607 mL	4.3035 mL	8.6070 mL
	10 mM		0.4303 mL	2.1517 mL	4.3035 mL

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

## Biological Activity

Shortsummary

KAT5 (Tip60) HAT inhibitor

IC<sub>50</sub> & Target

In Vitro

### Cell Viability Assay

Cell Line:	LNCaP cells, PC3 cells, LNCaP-CdxR and CWR22rv1 cells
Preparation method:	Limited solubility. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	2.5, 5, 10, 20, and 40 μM; 24, 48, 72 and 96 h
Applications:	In LNCaP cells, NU9056 decreased levels of acetylated histone H4K16, H3K14 and H4K8, targets for Tip60-mediated acetylation. NU9056 inhibited cell

growth with GI50 values of 24  $\mu$ M and 27  $\mu$ M for LNCaP and PC3 cells, respectively. LNCaP-CdxR and CWR22rv1 cells showed significantly greater sensitivity to NU9056 than the parental LNCaP cell line with GI50 values of 12  $\mu$ M and 7.5  $\mu$ M, respectively. The most sensitive cell line CWR22rv1 actually expressed the most Tip60. Treatment with NU9056 (24  $\mu$ M) for 24h significantly reduced colony forming ability of LNCaP cells. In LNCaP cells, NU9056 also resulted in both caspase 3 and caspase 9 activation in a time- and concentration-dependent way, and induced apoptosis.

In Vivo

**Animal experiment**

Applications:

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1] Coffey K1, Blackburn TJ, Cook S, et al. Characterisation of a Tip60 specific inhibitor, NU9056, in prostate cancer. PLoS One. 2012;7(10):e45539.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

*Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.*

**APEX BIO Technology**

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