

Product Name: Triapine Revision Date: 09/26/2023

## **Product Data Sheet**

# **Triapine**

Cat. No.: B3209

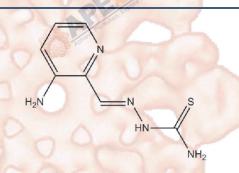
CAS No.: 236392-56-6; 200933-27-3; 143621-35-6

**Formula:** C7H9N5S **M.Wt:** 195.24

Synonyms:

Target: DNA Damage/DNA Repair

Pathway: DNA Synthesis
Storage: Store at -20°C



## Solvent & Solubility

≥83.33 mg/mL in DMSO; insoluble in EtOH; insoluble in H2O

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	5.1219 mL	25.6095 mL	51.2190 mL
	5 mM	1.0244 mL	5.1219 mL	10.2438 mL
	10 mM	0.5122 mL	2.5610 mL	5.1219 mL

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

# **Biological Activity**

Snortsummary	Ribonucieotide reductase in	Riponucleotide reductase innibitor		
IC <sub>50</sub> & Target				
	Cell Viability Assay	E Europe de la Companya de la Compan		
	Cell Line:	Wild-type (KB) and HU-resistant (KB/HU) human KB nasopharyngeal carcinoma cells.		
In Vitro	Preparation method:	The solubility of this compound in DMSO is > 83.3 mg/mL. 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:	37°C	
	Applications:	Triapine is found to be a much more potent inhibitor of the enzyme than HU	
		regardless of the cellular source of the enzyme, with a comparable inhibition at	
		roughly a 1000-old lower concentration of Triapine than HU.	
	Animal experiment	The state of the s	
	Animal models:	Mice xenografts of murine M109 lung carcinoma and the human A2780	
	Achee Peres	ovarian carcinoma.	
	Dosage form:	i.p. or i.v. bolus injection (0.01 mL/g)	
	Applications:	Triapine significantly inhibits the growth in mice of the M109 lung carcinoma,	
		the twice daily schedule produces tumor growth delays of 10 days compared to	
In Vivo		untreated control animals. Growth of the human A2780 ovarian carcinoma	
		xenograft in nude mice is also significantly inhibited by Triapine, at 8 and 10	
		mg/kg given on a twice daily schedule.	
	Preparation method:	Triapine in 0.9% NaCl	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may	
	Official on, Explor	slightly differ with the theoretical value. This is caused by an experimental	
	Atte et	system error and it is normal.	

### **Product Citations**

See more customer validations on www.apexbt.com.

### References

1. Finch RA, Liu M, Grill SP et al. Triapine (3-aminopyridine-2-carboxaldehyde- thiosemicarbazone): A potent inhibitor of ribonucleotide reductase activity with broad spectrum antitumor activity. Biochem Pharmacol. 2000 Apr 15;59(8):983-91.

### 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 APExBIO 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.

### **APExBIO Technology**

## www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

AR ENTER BELLEVILLE TO BE THE THE SECOND STATE OF THE SECOND STATE

AREI BIO

ARE TO BE THE OWNER THE OW

ARE LEVE DE LEVE DE LES DE LES

Restore Perfection, Supporting International

APE DO STATE OF THE PROPERTY O