

Product Name: RITA (NSC 652287) Revision Date: 01/10/2021

OH

## **Product Data Sheet**

OH

# **RITA (NSC 652287)**

Cat. No.:	A4202
CAS No.:	2 <mark>132</mark> 61-59-7
Formula:	C14H12O3S2
M.Wt:	292.4
Synonyms:	
Target:	Apoptosis
Pathway:	p53
Storage:	Store at -20°C
	<b>al</b> 9

## Solvent & Solubility

	insoluble in H2O; $\geq$	insoluble in H2O; $\geq$ 14.6 mg/mL in DMSO; $\geq$ 9.84 mg/mL in EtOH with gentle warming and ultrasonic			
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
		1 mM	3.4200 mL	17.0999 mL	34.1997 mL
		5 mM	0.6840 mL	3.4200 mL	6.8399 mL
		10 mM	0.3420 mL	1.7100 mL	3.4200 mL

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

## **Biological Activity**

Shortsummary	Mdm2-p53 interaction and p53 ubiquitination blocking		
IC <sub>50</sub> & Target	2 nM (DNA cross-links (A498 cells)), 20 nM (DNA cross-links (TK-10 cells))		
In Vitro	Cell Viability Assay	Provide State	
	Cell Line:	Human renal tumor cell lines	
	Preparation method:	The solubility of this compound in DMSO is >14.6mg/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:	48-hr	
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	Applications:	NSC 652287 (48-hr) inhibited cell growth with the GI50 values of 10-60 nM in		
		the tumor cell lines. The A-498 and TK-10 cell lines were particularly sensitive		
		to NSC 652287-induced cytotoxicity with the IC50 values of 2 nM and 20 nM,		
		respectively.		
	Animal experiment			
In Vivo	Animal models:	Nude mice bearing A-498 tumor cell xenografts, HCT116 tumor xenografted		
	OE	mouse model		
	Dosage form:	Intravenous injection, 7 hr apart, every 4 days for 12 days		
	Applications:	NSC 652287 (44.5 mg/kg, 66.7 mg/kg, 100 mg/kg) resulted in complete tumor		
		regression in 100% of the treated mice by the end of the third treatment period.		
		Intraperitoneal administration of NSC 652287 was well tolerated in mice after,		
		with no observable weight loss at doses up to 10 mg/kg during 1 month. NSC		
		652287 (0.1 mg/kg, five injections) suppressed the growth of the HCT116		
		tumors by 40%. NSC 652287 (1 or 10 mg/kg) showed strong antitumor activity.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubilit		
	DE	slightly differ with the theoretical value. This is caused by an experimental		
	Provide State	system error and it is normal.		

#### **Product Citations**

See more customer validations on www.apexbt.com.





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[2]. Issaeva N, Bozko P, Enge M, et al. Small molecule RITA binds to p53, blocks p53-HDM-2 interaction and activates p53 function in tumors[J]. Nature medicine, 2004, 10(12): 1321.

#### 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.

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