

Product Name: ARN-509 Revision Date: 01/10/2021 **Product Data Sheet**

ARN-509

Cat. No.:	A8364
CAS No.:	956104-40-8
Formula:	C21H15F4N5O2S
M.Wt:	477.43
Synonyms:	ARN 509; ARN509
Target:	Endocrinology and Hormones
Pathway:	Androgen Receptor
Storage:	Store at -20°C

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Solvent & Solubility

	≥23.85 mg/mL in DN	≥23.85 mg/mL in DMSO; insoluble in H2O; ≥7.33 mg/mL in EtOH					
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg		
	Stock Solutions	1 mM	2.0945 mL	10.4727 mL	20.9455 mL		
	810	5 mM	0.4189 mL	2.0945 mL	4.1891 mL		
	PENN	10 mM	0.2095 mL	1.0473 mL	2.0945 mL		

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

Biological Activity

Shortsummary	Androgen receptor inhibitor		
IC ₅₀ & Target	16 nM (Androgen Receptor), 3 μM (GABAA receptor)		
	Cell Viability Assay	Part and	
	Cell Line:	LNCaP, LNCaP-AR and VCaP cells	
	Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining	
In Vitro		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:	1 μM; 48 hrs	
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	Applications:	In LNCaP, LNCaP-AR and VCaP cells, ARN-509 increased DNA damage. In			
	Applications.				
		LNCaP cell line, ARN-509 decreased cell survival. In addition, ARN-509			
		significantly decreased C-NHEJ-mediated recombination (> 60%) in LNCaP			
		cells that had been transfected with $V(D)J$ recombination substrate along with			
		RAG1 and RAG2 expression vectors.			
	Animal experiment	610			
In Vivo	Animal models:	Castrate male immunodeficient mice harboring LNCaP/AR-luc xenograft			
	All Contraction	tumors			
	Dosage form:	10 mg/kg/d; p.o.; for 17 days			
	Applications:	In castrate male immunodeficient mice harboring LNCaP/AR-luc xenograft			
		tumors, the 17-day Oral treatment with ARN-509 (10 mg/kg/d) consistently			
		reduced androgen-driven luciferase reporter-gene activity. In addition,			
		ARN-509 decreased the proliferative index and increased the apoptotic rate of			
		tumors, respectively.			
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may			
	DE	slightly differ with the theoretical value. This is caused by an experimental			
	A Provent	system error and it is normal.			
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Product Citations

1. Bao D, Cheng C, et al. "Regulation of p53wt glioma cell proliferation by androgen receptor-mediated inhibition of small VCP/p97-interacting protein expression."Oncotarget. 2017 Apr 4;8(14):23142-23154.PMID:28423563

2. Sun J, Wang D, et al. "Androgen Receptor Regulates the Growth of Neuroblastoma Cells in vitro and in vivo." Front Neurosci. 2017 Mar 7;11:116.PMID:28326012

See more customer validations on www.apexbt.com.

References

[1]. William R. Polkinghorn, Joel S. Parker, Man X. Lee, et al. Androgen Receptor Signaling Regulates DNA Repair in Prostate Cancers. Cancer Discovery, 2013, 3(11):1245-53.

[2]. Nicola J. Clegg, John Wongvipat, James D. Joseph, et al. ARN-509: A Novel Antiandrogen for Prostate Cancer Treatment. Therapeutics, Targets & amp; Chemical Biology, 2012, 72(6): 1494-1503.

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

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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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