ARN-3236

Cat. No.:	HY-120856		
CAS No.:	1613710-01-2		
Molecular Formula:	C ₁₉ H ₁₆ N ₂ O ₂ S		
Molecular Weight:	336.41		
Target:	Salt-inducible Kinase (SIK)		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

Preparing Stock Solutions Please refer to the so		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	1 0	1 mM	2.9726 mL	14.8628 mL	29.7256 mL	
	5 mM	0.5945 mL	2.9726 mL	5.9451 mL		
		10 mM	0.2973 mL	1.4863 mL	2.9726 mL	
	Please refer to the sc	Please refer to the solubility information to select the appropriate solvent.				
ı Vivo		one by one: 10% DMSO >> 40% PE ng/mL (6.45 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline		
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.17 mg/mL (6.45 mM); Clear solution				
		 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.17 mg/mL (6.45 mM); Clear solution 				

BIOLOGICAL ACTIVITY				
Description		d selective inhibitor of salt-indu ectively. Has anti-cancer activity	cible kinase 2 (SIK2), with IC ₅₀ s of <1 nM, 21.63 nM and 6.63 nM ^{[1][2]} .	
IC₅₀ & Target	SIK2 <1 nM (IC ₅₀)	SIK1 21.63 nM (IC ₅₀)	SIK3 6.63 nM (IC ₅₀)	
In Vitro	ARN-3236 inhibits SIK2 activity with an $IC_{50} < 1 \text{ nM}^{[2]}$.			

Product Data Sheet

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		ARN-3236 inhibits cell growth and increases NSC 125973 sensitivity in ovarian cancer cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[2]		
	Cell Line:	HEY and A2780 human ovarian cancer cell lines.		
	Concentration:	0-10 μΜ.		
	Incubation Time:	24 hours.		
	Result:	Inhibited SIK2 activity with an IC ₅₀ <1 nM.		
In Vivo		ARN-3236 (60 mg/kg, orally) sensitizes ovarian cancer to NSC 125973 in vivo ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	SKOv3ip-bearing mice and OVCAR8-bearing mice ^[2] .		
	Dosage:	60 mg/kg.		
	Administration:	Orally once daily for 3 weeks (SKOv3ip-bearing mice) and 4 weeks (OVCAR8-bearing mice).		
	Result:	Sensitized ovarian cancer to NSC 125973.		

CUSTOMER VALIDATION

- Oncogene. 2022 Mar 11.
- Transl Res. 2022 Sep 5;S1931-5244(22)00198-0.
- BMC Pulm Med. 2022 Apr 11;22(1):140.

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REFERENCES

[1]. Lombardi MS, et al. SIK inhibition in human myeloid cells modulates TLR and IL-1R signaling and induces an anti-inflammatory phenotype. J Leukoc Biol. 2016 May;99(5):711-21.

[2]. Zhou J, et al. A Novel Compound ARN-3236 Inhibits Salt-Inducible Kinase 2 and Sensitizes Ovarian Cancer Cell Lines and Xenografts. Clin Cancer Res. 2017 Apr 15;23(8):1945-1954.

Caution: Product has not been fully validated for medical applications. For research use only.

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