microRNA-21-IN-1

HY-146411			
2848720-31-8			
C ₃₀ H ₃₇ FN ₆ O ₃			
548.65			
MicroRNA; Apoptosis			
Epigenetics; Apoptosis			
Powder	-20°C	3 years	
	4°C	2 years	
In solvent	-80°C	6 months	
	-20°C	1 month	
	2848720-31 C ₃₀ H ₃₇ FN ₆ O ₃ 548.65 MicroRNA; <i>A</i> Epigenetics Powder	2848720-31-8 C ₃₀ H ₃₇ FN ₆ O ₃ 548.65 MicroRNA; Apoptosis Epigenetics; Apoptos Powder -20°C 4°C In solvent -80°C	

SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg	
		1 mM	1.8227 mL	9.1133 mL	18.2266 mL	
		5 mM	0.3645 mL	1.8227 mL	3.6453 mL	
		10 mM	0.1823 mL	0.9113 mL	1.8227 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (4.56 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.56 mM); Clear solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (4.56 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY				
Description	microRNA-21-IN-1 (compound A7) is an efficient microRNA inhibitor. microRNA-21-IN-1 has antiproliferative activity against Hela and HCT-116 cells with IC ₅₀ s of 5.5 μM and 2.8 μM respectively, as well as promotes apoptosis of Hela cells. microRNA- 21-IN-1 upregulates the expression of microRNA-21 downstream functional targets (PTEN, EGR1 and SLIT2). microRNA-21- IN-1 can be used for researching anticancer ^[1] .			
IC ₅₀ & Target	IC ₅₀ : 5.5 μM in Hela, 2.8 μM in HCT-116 ^[1]			



REFERENCES

[1]. Xi XX, et al. Identification of benzamides derivatives of norfloxacin as promising microRNA-21 inhibitors via repressing its transcription. Bioorg Med Chem. 2022;66:116803.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA