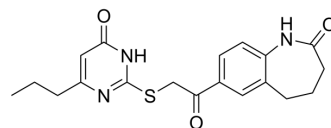


S07-2010

Cat. No.:	HY-150644		
CAS No.:	1223194-71-5		
Molecular Formula:	C ₁₉ H ₂₁ N ₃ O ₃ S		
Molecular Weight:	371.45		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 41.67 mg/mL (112.18 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.6922 mL	13.4608 mL	26.9215 mL
		5 mM	0.5384 mL	2.6922 mL	5.3843 mL
10 mM		0.2692 mL	1.3461 mL	2.6922 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: ≥ 2.08 mg/mL (5.60 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.60 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	S07-2010 is a potent pan-AKR1C (aldo-keto reductase family 1 member C) inhibitor, with IC ₅₀ values of 0.19, 0.36, 0.47, and 0.73 μM for AKR1C3, AKR1C4, AKR1C1 and AKR1C2, respectively. S07-2010 induces apoptosis in A549/DDP cells. S07-2010 strengthens the cytotoxicity of chemotherapeutic agents in drug-resistant cells. S07-2010 significantly inhibits the proliferation of drug-resistant cells ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.19 ± 0.08 μM (AKR1C3), 0.36 ± 0.15 μM (AKR1C4), 0.47 ± 0.16 μM (AKR1C1), 0.73 ± 0.35 μM (AKR1C2) ^[1]
In Vitro	S07-2010 (0-25 μM, 48h) exhibits obvious cytotoxicity on MCF-7/DOX and A549/DDP, with IC ₅₀ values of 127.5 and 5.51 μM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Siyu He, et al. Discovery of Novel Aldo-Keto Reductase 1C3 Inhibitors as Chemotherapeutic Potentiators for Cancer Drug Resistance. ACS Med. Chem. Lett. 2022.

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

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