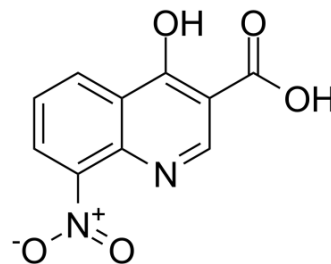


DNA2 inhibitor C5

Cat. No.:	HY-128729		
CAS No.:	35973-25-2		
Molecular Formula:	C ₁₀ H ₆ N ₂ O ₅		
Molecular Weight:	234.17		
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 : 31.25 mg/mL (133.45 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.2704 mL	21.3520 mL	42.7040 mL
		5 mM	0.8541 mL	4.2704 mL	8.5408 mL
10 mM		0.4270 mL	2.1352 mL	4.2704 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 (8.88 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (8.88 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	DNA2 inhibitor C5 is a potent, competitive and specific inhibitor of DNA2 nuclease activity with an IC ₅₀ of 20 μM. DNA2 inhibitor C5 inhibits nuclease, DNA dependent ATPase, helicase, and DNA binding activities of DNA2. DNA2 inhibitor C5 is a promising lead compound to develop sensitizers for cancer chemotherapeutics that cause replication stress ^[1] .
IC ₅₀ & Target	IC50: 20 μM (DNA2 nuclease) ^[1]

REFERENCES

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

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