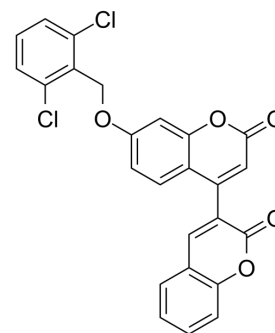


TDP1 Inhibitor-2

Cat. No.:	HY-147750		
CAS No.:	859142-95-3		
Molecular Formula:	C ₂₅ H ₁₄ Cl ₂ O ₅		
Molecular Weight:	465.28		
Target:	Phosphodiesterase (PDE)		
Pathway:	Metabolic Enzyme/Protease		
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 : 8.33 mg/mL (17.90 mM; ultrasonic and warming and heat to 80°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1492 mL	10.7462 mL	21.4924 mL
		5 mM	0.4298 mL	2.1492 mL	4.2985 mL
10 mM		0.2149 mL	1.0746 mL	2.1492 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 0.83 mg/mL (1.78 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	TDP1 Inhibitor-2 (compound 5) is a potent inhibitor for TDP1 (tyrosyl-DNA phosphodiesterase 1), with an IC ₅₀ of 99 nM. TDP1 Inhibitor-2 also can inhibit SCAN1 (spinocerebellar ataxia syndrome with axonal neuropathy), with an IC ₅₀ of 3.5 μM ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.099 ± 0.044 μM (TDP1), 3.5 ± 2.3 μM (SCAN1) ^[1]
In Vitro	TDP1 Inhibitor-2 (compound 5) shows potent anti-TDP1 activity, low cytotoxicity and synergism with topotecan, an established Top1 anticancer agent ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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