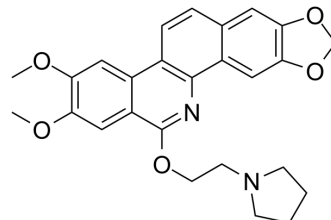


TDP1 Inhibitor-1

Cat. No.:	HY-119372
CAS No.:	2248702-80-7
Molecular Formula:	C ₂₆ H ₂₆ N ₂ O ₅
Molecular Weight:	446.5
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 3.33 mg/mL (7.46 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.2396 mL	11.1982 mL	22.3964 mL
5 mM	0.4479 mL	2.2396 mL	4.4793 mL
10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

TDP1 Inhibitor-1 is a potent Tyrosyl-DNA Phosphodiesterase 1 (TDP1) inhibitor with an IC₅₀ of 7 μM^[1].

IC₅₀ & Target

IC₅₀: 7 μM (Tyrosyl-DNA Phosphodiesterase 1)^[1]

REFERENCES

[1]. Zhang XR, et al. Discovery, Synthesis, and Evaluation of Oxynitidine Derivatives as Dual Inhibitors of DNA Topoisomerase IB (TOP1) and Tyrosyl-DNA Phosphodiesterase 1 (TDP1), and Potential Antitumor Agents. J Med Chem. 2018 Nov 21;61(22):9908-9930.

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

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