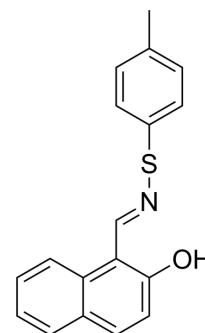


COH34

Cat. No.:	HY-128760
CAS No.:	906439-72-3
Molecular Formula:	C ₁₈ H ₁₅ NOS
Molecular Weight:	293.38
Target:	Poly(ADP-ribose) Glycohydrolase (PARG)
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years



* The compound is unstable in solutions, freshly prepared is recommended.

SOLVENT & SOLUBILITY

In Vitro	DMSO : 16.67 mg/mL (56.82 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.4085 mL	17.0427 mL	34.0855 mL
		5 mM	0.6817 mL	3.4085 mL	6.8171 mL
	10 mM	0.3409 mL	1.7043 mL	3.4085 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: ≥ 1.67 mg/mL (5.69 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (5.69 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	COH34 is a potent and specific poly(ADP-ribose) glycohydrolase (PARG) inhibitor with an IC ₅₀ of 0.37 nM. COH34 binds to the catalytic domain of PARG (K _d =0.547 μM), thereby prolonging PARYlation at DNA lesions and trapping DNA repair factors ^[1] .
IC ₅₀ & Target	IC50: 0.37 nM (PARG) ^[1]
In Vitro	COH34 efficiently kills PARP inhibitor-resistant cancer cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	COH34 induces lethality in cancer cells with DNA repair defects and exhibits antitumor activity in xenograft mouse cancer models ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cancer Rep. 26 August 2022.

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REFERENCES

[1]. Chen SH, et al. Targeting dePARylation selectively suppresses DNA repair-defective and PARP inhibitor-resistant malignancies. *Sci Adv.* 2019 Apr 10;5(4):eaav4340.

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

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