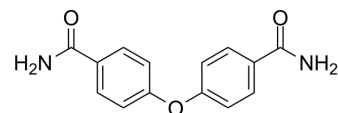


## OUL35

Cat. No.:	HY-123512
CAS No.:	6336-34-1
Molecular Formula:	C <sub>14</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	256.26
Target:	PARP
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 83.33 mg/mL (325.18 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.9023 mL	19.5114 mL	39.0229 mL
				5 mM	0.7805 mL	3.9023 mL	7.8046 mL
				10 mM	0.3902 mL	1.9511 mL	3.9023 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (8.12 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (8.12 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	OUL35 (NSC39047) is a potent and selective inhibitor of ARTD10 (PARP-10), with an IC <sub>50</sub> of 329 nM <sup>[1]</sup> .
IC <sub>50</sub> & Target	ARTD10/PARP10 329 nM (IC <sub>50</sub> )
In Vitro	OUL35 rescues HeLa cells from ARTD10-induced cell death and sensitizes cells to DNA damage. OUL35 (3 μM) binds to endogenous ARTD10 in U2OS cells <sup>[1]</sup> . OUL35 also inhibits ARTD8 (23.4 μM), ARTD4 (22.6 μM), and ARTD15 (4.17 μM) but with modest potency <sup>[1]</sup> . OUL35 makes hydrogen bonds to the amide and carbonyl of Gly888 and to the side-chain hydroxyl of Ser927. OUL35 stacks between Tyr919 and Tyr932, like 3AB in the crystal structure <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Harikanth Venkannagari, et al. Small-Molecule Chemical Probe Rescues Cells from Mono-ADP-Ribosyltransferase ARTD10/PARP10-Induced Apoptosis and Sensitizes Cancer Cells to DNA Damage. Cell Chem Biol. 2016 Oct 20;23(10):1251-1260.

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

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