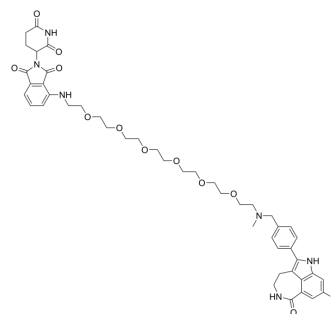


iRucaparib-AP6

Cat. No.: HY-130644
CAS No.: 2410557-00-3
Molecular Formula: C₄₆H₅₅N₆O₁₁
Molecular Weight: 886.96
Target: PARP; PROTACS
Pathway: Cell Cycle/DNA Damage; Epigenetics; PROTAC
Storage: -20°C, stored under nitrogen
 * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (56.37 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div>Solvent Concentration</div>	Mass	1 mg	5 mg	10 mg
		1 mM		1.1274 mL	5.6372 mL	11.2745 mL
		5 mM		0.2255 mL	1.1274 mL	2.2549 mL
		10 mM		0.1127 mL	0.5637 mL	1.1274 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: ≥ 2.5 mg/mL (2.82 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	iRucaparib-AP6 is a highly efficient and specific PROTAC PARP1 degrader. iRucaparib-AP6, a non-trapping PARP1 degrader, blocks both the catalytic activity and scaffolding effects of PARP1 ^[1] .	
IC ₅₀ & Target	PARP1 82 nM (DC50)	
In Vitro	iRucaparib-AP6 (0-10 μM; 24 hours) decreases PARP-1 level in a dose dependent manner, exhibits a half-maximal degrading concentration (DC ₅₀) of 82 nM (D _{max} = 92%) ^[1] .	
	iRucaparib-AP6 (0-20 μM; 24 hours) induces degradation of PARP1 at low concentrations ^[1] .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Cell Viability Assay ^[1]	
	Cell Line:	Primary rat neonatal cardiomyocyte cells

Concentration:	0.001 μ M; 0.01 μ M; 0.1 μ M; 1 μ M; 10 μ M
Incubation Time:	24 hours
Result:	Decreased PARP-1 level in primary rat neonatal cardiomyocyte cells.

Western Blot Analysis^[1]

Cell Line:	Primary rat neonatal cardiomyocyte cells
Concentration:	0.05 μ M; 0.1 μ M; 0.2 μ M; 0.5 μ M; 1 μ M; 2 μ M; 5 μ M; 10 μ M; 20 μ M
Incubation Time:	24 hours
Result:	Induced robust PARP1 degradation at concentrations as low as 50 nM.

CUSTOMER VALIDATION

- J Med Chem. 2020 Oct 8;63(19):11012-11033.

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REFERENCES

[1]. Wang S, et al. Uncoupling of PARP1 trapping and inhibition using selective PARP1 degradation. Nat Chem Biol. 2019 Dec;15(12):1223-1231.

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

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