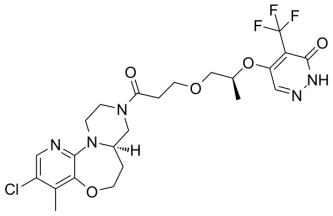
PARP7-IN-12

Cat. No.:	HY-151609
CAS No.:	2819700-92-8
Molecular Formula:	$C_{23}H_{27}ClF_3N_5O_5$
Molecular Weight:	545.94
Target:	PARP
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PARP7-IN-12 is a potent PARP7 Inhibitor with an IC_{50} value of 7.836 nM. PARP7-IN-12 can be used in research of cancer[1].
IC_{50} & Target	PARP7 7.836 nM (IC_{50})
In Vitro	PARP7-IN-12 (compound 85A; 16-24 h) inhibits cell proliferative with an IC_{50} values of 20.722 nM in H1373 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	PARP7-IN-12 (compound 85A; 3 and 100 mg/kg; i.v. and p.o.; Balb/c mice) has good pharmacokinetic property[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Balb/c mice[1]
Dosage:	3 and 100 mg/kg
Administration:	Intravenous injection (3 mg/kg) and oral administration (10 mg/kg)

Result:

Administration	i.v. (3 mg/kg)	p.o. (100 mg/kg)
CL (mL/min/kg)	32	
Vss (L/kg)	0.4	
C_{max} (ng/mL)		21733
AUC_{last} (ng·h/mL)		26442
Oral BA (F%)		48

REFERENCES

[1]. Jun LH, et, al. Tricyclic derivatives useful as parp7 inhibitors. WO2022170974.

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