OUL245

Cat. No.: HY-W294889

CAS No.: 1023814-45-0

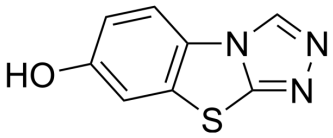
Molecular Formula: $C_8H_5N_3OS$

Molecular Weight: 191.21

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

OUL245 is a 7-Hydroxy derivative, and a selectively PARP2 inhibitor (IC_{50}=44 nM). OUL245 also inhibits other PARP and TNKS enzymes with IC_{50}s of 2.9-8.8 μM[1].

IC_{50} & Target

PARP2 44 nM (IC_{50})	PARP-1 570 nM (IC_{50})	PARP3 8.8 μM (IC_{50})	PARP4 6.0 μM (IC_{50})
TNKS1 1.6 μM (IC_{50})	TNKS2 370 μM (IC_{50})	PARP10 2.9 μM (IC_{50})	PARP14 6.7 μM (IC_{50})
PARP15 2.0 μM (IC_{50})			

In Vitro

OUL245 (1 μM; 10-12 d) unlike other derivatives, does not save cells overexpressing PARP10 from ADP ribosylation-dependent cell death[1].

Pharmacokinetic Analysis[1]

water solubility μg/mL	GI P_{app}×10^{-6} cm/s (RM %)	BBB P_{app}×10^{-6} cm/s (RM %)	metabolic stablity %	stab in human plasma	stab. in MeOH	stab in PBS pH 7.4
24.91	0.019	0.164	95.05	>24	>24	>24

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Murthy S, et al. [1,2,4]Triazolo[3,4-b]benzothiazole Scaffold as Versatile Nicotinamide Mimic Allowing Nanomolar Inhibition of Different PARP Enzymes. J Med Chem. 2023 Jan 4.

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

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