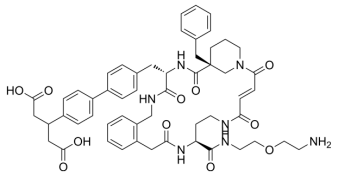
CypD-IN-4

Cat. No.:	HY-151488
Molecular Formula:	$C_{54}H_{63}N_7O_{11}$
Molecular Weight:	986.12
Target:	Sirtuin
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CypD-IN-4 is a potent and subtype-selective cyclophilin D (CypD) inhibitor. CypD-IN-4 has CypD affinity with an IC_{50} value of 0.057 μM. CypD-IN-4 can be used for the research of several diseases including oxidative stress, neurodegenerative disorders, liver diseases, aging, autophagy and diabetes[1].
IC_{50} & Target	IC50: 0.057 μM (CypD); 3.4 μM (CypA); 1.1 μM (CypB); 0.8μM (CypE)[1]
In Vitro	CypD-IN-4 (B53) has selectivity for inhibiting CypD, CypA, CypB and CypE with IC_{50} values of 0.057 μM, 3.4 μM, 1.1 μM and 0.8 μM, respectively[1]. CypD-IN-4 (20 μM) inhibits mitochondrial permeability transition pore opening in isolated mitochondria[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Alexander A Peterson, et al. Discovery and molecular basis of subtype-selective cyclophilin inhibitors. Nat Chem Biol. 2022 Sep 26.

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