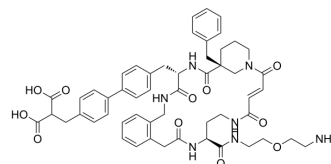


CypD-IN-3

Cat. No.:	HY-151487
CAS No.:	2651994-75-9
Molecular Formula:	C ₅₃ H ₆₁ N ₇ O ₁₁
Molecular Weight:	972.09
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-3 is a potent and subtype-selective cyclophilin D (CypD) inhibitor. CypD-IN-3 has CypD affinity with an IC ₅₀ value of 0.01 μM. CypD-IN-3 can be used for the research of several diseases including oxidative stress, neurodegenerative disorders, liver diseases, aging, autophagy and diabetes ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.01 μM (CypD); 1.1 μM (CypA); 0.21 μM (CypB); 0.31 μM (CypE) ^[1]
In Vitro	CypD-IN-3 (B52) has selectivity for inhibiting CypD, CypA, CypB and CypE with IC ₅₀ values of 0.01 μM, 1.1 μM, 0.21 μM and 0.31 μM, respectively ^[1] . CypD-IN-3 (10 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.

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

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