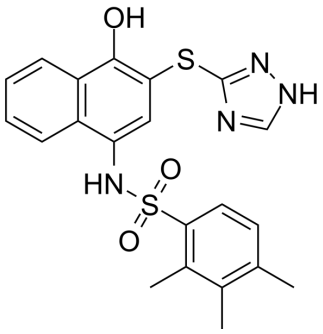
Sirt1/2-IN-4

Cat. No.:	HY-155729
CAS No.:	2999646-13-6
Molecular Formula:	$C_{21}H_{20}N_4O_3S_2$
Molecular Weight:	440.54
Target:	Sirtuin; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sirt1/2-IN-4 (compound PS3) is a triple inhibitor of SIRT1/2/3 with IC_{50}s of 1.2 μM (SIRT1), 1.9 μM (SIRT2), and 18.6 μM (SIRT3), respsectivley. Sirt1/2-IN-4 completely blocks p53 deacetylation, with potential anti-cancer activity[1].
IC_{50} & Target	IC50: 1.2 μM (SIRT1), 1.9 μM (SIRT2), 18.6 μM (SIRT3)[1]
In Vitro	Sirt1/2-IN-4 (compound PS3) (5 μM; 48 h) induces apoptosis in different tumor cells, with IC_{50}s of 6.5 μM (MV4-11), 9.2μM (MOLM-13), 27.2 μM (THP1), 17.4 μM (Jurkat), respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cai H, et al. Discovery of Novel SIRT1/2 Inhibitors with Effective Cytotoxicity against Human Leukemia Cells. J Chem Inf Model. 2023 Aug 14;63(15):4780-4790.

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