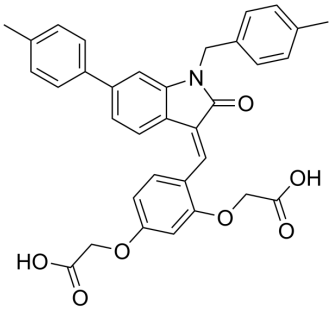
SAP2-IN-1

Cat. No.:	HY-151376
CAS No.:	2512847-37-7
Molecular Formula:	$C_{34}H_{29}NO_7$
Molecular Weight:	563.6
Target:	Proteasome
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

SAP2-IN-1 is a secreted aspartic protease 2 (SAP2) inhibitor and has potent SAP2 inhibitory activity with an IC_{50} value of 0.92 μM. SAP2-IN-1 also is a virulence factor inhibitor and is inactive in vitro. SAP2-IN-1 can be used for the research of infection[1].

IC_{50} & Target

IC50: 0.92 μM (SAP2)[1]

In Vitro

SAP2-IN-1 (compound 24a) (100 μM) shows potent SAP2 inhibitory activity with an IC_{50} value of 0.92 μM[1].
SAP2-IN-1 (100 μM) has not inhibit the growth of C. albicans and inactive in vitro[1].
SAP2-IN-1 (64 μg/mL) blocks fungi biofilm and hypha formation by down-regulating the expression of genes SAP2, ECE1, ALS3 and EFG1[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

RT-PCR[1]

Cell Line:	C. albicans cells
Concentration:	64 μg/mL
Incubation Time:	
Result:	Inhibited hypha growth through the cAMP-dependent pathway.

In Vivo

SAP2-IN-1 (compound 24a) (i.p.; 10 mg/kg; once daily; for four days) shows potent in vivo efficacy in a murine model of invasive candidiasis[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	a murine model of invasive candidiasis[1]
Dosage:	10 mg/kg
Administration:	intraperitoneally administration, once daily, for four days
Result:	Significantly reduced the fungal burden in the kidney.

REFERENCES

[1]. Chenglan Li, et al. Targeting fungal virulence factor by small molecules: Structure-based discovery of novel secreted aspartic protease 2 (SAP2) inhibitors. Eur J Med Chem. 2020 Sep 1;201:112515.

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