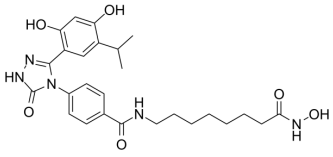
HDAC/HSP90-IN-3

Cat. No.:	HY-144694
CAS No.:	2700035-54-5
Molecular Formula:	$C_{26}H_{33}N_5O_6$
Molecular Weight:	511.57
Target:	HSP; HDAC; Fungal
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Epigenetics; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HDAC/HSP90-IN-3 (compound J5) is a potent and selective fungal Hsp90 and HDAC dual inhibitor, with IC_{50} values of 0.83 and 0.91 μM, respectively. HDAC/HSP90-IN-3 shows antifungal activity against azole resistant C. albicans. HDAC/HSP90-IN-3 can suppress important virulence factors and down-regulate drug-resistant genes ERG11 and CDR1[1].			
IC_{50} & Target	HSP90 0.83 μM (IC_{50}, fungal Hsp90)	HDAC 0.91 μM (IC_{50}, fungal HDACs)	human HDAC 3.0 μM (IC_{50}, human HDACs)	HSP90 19.52 μM (IC_{50}, human Hsp90)
In Vitro	HDAC/HSP90-IN-3 (compound J5) significantly down-regulates the adherence-related genes (such as ALS3, HWP1, EAP1, BCR1), and down-regulates the expression of ERG11 and CDR1[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Li C, Tu J, Han G, Liu N, Sheng C. Heat shock protein 90 (Hsp90)/Histone deacetylase (HDAC) dual inhibitors for the treatment of azoles-resistant Candida albicans. Eur J Med Chem. 2022 Jan 5;227:113961.

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