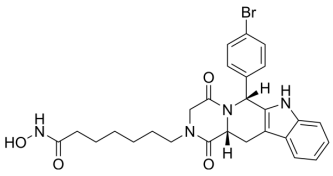
PDE5/HDAC-IN-1

Cat. No.:	HY-147991
CAS No.:	2414921-48-3
Molecular Formula:	$C_{27}H_{29}BrN_4O_4$
Molecular Weight:	553.45
Target:	Phosphodiesterase (PDE); HDAC; Apoptosis
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Epigenetics; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PDE5/HDAC-IN-1 (Compound 26) is a potent phosphodiesterase 5 (PDE5) and HDAC inhibitor with IC_{50} values of 46.3 nM and 14.5 nM, respectively. PDE5/HDAC-IN-1 induces cell apoptosis and shows anticancer activities[1].			
IC_{50} & Target	PDE5 46.3 nM (IC_{50})	HDAC6 0.11 μM (IC_{50})	HDAC8 0.12 μM (IC_{50})	HDAC1 2.45 μM (IC_{50})
In Vitro	PDE5/HDAC-IN-1 (Compound 26) shows growth inhibition with IC_{50} values of 12.35, 7.19 and 11.79 μM against HT-29, HCT-116 and SW-620 cells, respectively[1]. PDE5/HDAC-IN-1 shows cytotoxic activity with IC_{50} values of 1.9, 1.5, 2.5, 5.5, 9.8, 18.6, 2 and 28.2 μM against Molt 4, Sup-T1, K562, AGS, PC-3, LNCaP, T47D and CCD966SK, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. ElHady AK, et al. Extending the use of tadalafil scaffold: Development of novel selective phosphodiesterase 5 inhibitors and histone deacetylase inhibitors. Bioorg Chem. 2020 May;98:103742.

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