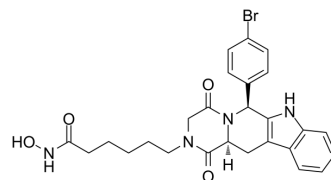


HDAC-IN-44

Cat. No.:	HY-150500
CAS No.:	2414921-46-1
Molecular Formula:	C ₂₆ H ₂₇ BrN ₄ O ₄
Molecular Weight:	539.42
Target:	HDAC
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HDAC-IN-44 is a HDAC inhibitor with the IC ₅₀ value of 61.2 nM. HDAC-IN-44 shows high anticancer activity towards multiple cancer cell lines ^[1] .								
In Vitro	<p>HDAC-IN-44 (20 µg/mL; 24 h) treatment shows inhibitory effects on acute lymphoblastic leukemia (Molt 4 cells), T-cell lymphoblastic lymphoma (Sup-T1 cells), chronic myelogenous leukemia (K562 cells), gastric adenocarcinoma (AGS), prostate cancer (PC3 and LNCaP cells) and breast cancer (T47D cells)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Molt 4, Sup-T1, K562, AGS, PC-3, LNCaP, T47D cells^[1]</td> </tr> <tr> <td>Concentration:</td> <td>20 µg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Exhibited IC₅₀ values of 11, 9.1, 16.3, 7.1, 13.4, 32.7 and 9.2 µM in Molt 4, Sup-T1, K562, AGS, PC-3, LNCaP, T47D cells, respectively^[1].</td> </tr> </table>	Cell Line:	Molt 4, Sup-T1, K562, AGS, PC-3, LNCaP, T47D cells ^[1]	Concentration:	20 µg/mL	Incubation Time:	24 hours	Result:	Exhibited IC ₅₀ values of 11, 9.1, 16.3, 7.1, 13.4, 32.7 and 9.2 µM in Molt 4, Sup-T1, K562, AGS, PC-3, LNCaP, T47D cells, respectively ^[1] .
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REFERENCES

[1]. Ahmed K ElHady 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.

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

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