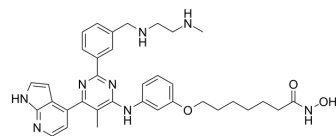


CARM1/HDAC2-IN-1

Cat. No.:	HY-157388
Molecular Formula:	C ₃₅ H ₄₂ N ₈ O ₃
Molecular Weight:	622.76
Target:	HDAC; Histone Methyltransferase
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CARM1/HDAC2-IN-1 (compound CH-1) is a dual inhibitor against CARM1 and HDAC2, with IC ₅₀ values of 3.71 nM and 4.07 nM, respectively. CARM1/HDAC2-IN-1 possesses antitumor activity ^[1] .									
IC₅₀ & Target	CARM1 3.71 nM (IC ₅₀)	HDAC2 4.07 nM (IC ₅₀)								
In Vitro	<p>CARM1/HDAC2-IN-1 inhibits proliferation of human prostate cancer cells DU145, RM1, LAPC4, 22RV1 and PC-3, with IC₅₀ values of 0.09 μM, 0.71 μM, 0.68 μM, 0.95 μM and 0.43 μM, respectively^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>DU145, RM1, LAPC4, 22RV1 and PC-3</td> </tr> <tr> <td>Concentration:</td> <td>∅1 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 h</td> </tr> <tr> <td>Result:</td> <td>Reduced proliferations of human prostate cancer cells.</td> </tr> </table>		Cell Line:	DU145, RM1, LAPC4, 22RV1 and PC-3	Concentration:	∅1 μM	Incubation Time:	72 h	Result:	Reduced proliferations of human prostate cancer cells.
Cell Line:	DU145, RM1, LAPC4, 22RV1 and PC-3									
Concentration:	∅1 μM									
Incubation Time:	72 h									
Result:	Reduced proliferations of human prostate cancer cells.									
In Vivo	<p>CARM1/HDAC2-IN-1 (i.p.; 0-20 mg/kg, injected every four days for six times) reveals an in vivo dose-dependent antitumor activity^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>									

REFERENCES

[1]. Liang S, et al. Discovery and biological evaluation of novel CARM1/HDAC2 dual-targeting inhibitors with anti-prostate cancer agents. J Enzyme Inhib Med Chem. 2023 Dec;38(1):2241118.

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

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