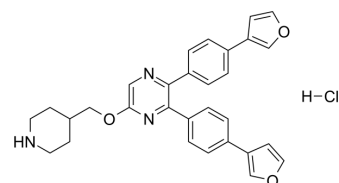


CBP/p300-IN-19 hydrochloride

Cat. No.:	HY-146277A
CAS No.:	2592638-14-5
Molecular Formula:	C ₃₀ H ₂₈ ClN ₃ O ₃
Molecular Weight:	514.01
Target:	Histone Acetyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CBP/p300-IN-19 hydrochloride is a potent and selective p300/CBP HAT inhibitor with IC ₅₀ s of 1.4, 2.2, >100, >100 μM for p300-HAT, CBP-HAT, PCAF, Myst3, respectively. CBP/p300-IN-19 hydrochloride shows antitumor activity ^[1] .											
IC₅₀ & Target	Myst3 >100 μM (IC ₅₀)	p300-HAT 1.4 μM (IC ₅₀)	CBP-HAT 2.2 μM (IC ₅₀)	PCAF >100 μM (IC ₅₀)								
In Vitro	<p>CBP/p300-IN-19 hydrochloride (compound 29) shows antiproliferative activity with EC₅₀s of 5.3, 8.5, 6.2, 4.4, 1.2, 4.3, 3.6, 8.7, 6.4 μM for MCF-7, MDA-MB231, LNCaP, PC-3, PANC-1, MDA-PANC-28, Molm-13, MV4;11, RPMI-8226 cells, respectively^[1]. CBP/p300-IN-19 hydrochloride (0, 5, 10 μM; 12 h) dose-dependently inhibits the acetylation of H3K18, H3K9 and K27^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Kasumi-1 leukemia cells</td> </tr> <tr> <td>Concentration:</td> <td>0, 5, 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>12 h</td> </tr> <tr> <td>Result:</td> <td>Dose-dependently inhibited the acetylation of H3K18, H3K9 and K27.</td> </tr> </table>				Cell Line:	Kasumi-1 leukemia cells	Concentration:	0, 5, 10 μM	Incubation Time:	12 h	Result:	Dose-dependently inhibited the acetylation of H3K18, H3K9 and K27.
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Concentration:	0, 5, 10 μM											
Incubation Time:	12 h											
Result:	Dose-dependently inhibited the acetylation of H3K18, H3K9 and K27.											

REFERENCES

[1]. Nie S, et al. Structure-activity relationship and antitumor activity of 1,4-pyrazine-containing inhibitors of histone acetyltransferases P300/CBP. Eur J Med Chem. 2022 Jul 5;237:114407.

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

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