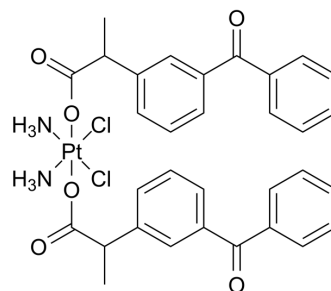


Antitumor agent-36

Cat. No.:	HY-145288
Molecular Formula:	C ₃₂ H ₃₂ Cl ₂ N ₂ O ₆ Pt
Molecular Weight:	806.6
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antitumor agent-36 possesses potent anti-proliferative and anti-metastasis activities. Antitumor agent-36 induces serious DNA damage and further leads to high expression of γ -H2AX and p53. Antitumor agent-36 promotes apoptosis of tumor cells through mitochondrial apoptotic pathway Bcl-2/Bax/caspase3. Antitumor agent-36 significantly improves immune response through restraining the expression of PD-L1 to increase CD3+ and CD8+ T infiltrating cells in tumor tissues ^[1] .								
IC₅₀ & Target	apoptosis ^[1]								
In Vitro	<p>Antitumor agent-36 (compound 1) (24-76 hours) displays relatively lower activities after 24 h treatment, and the IC₅₀ values decreases at 48 h, and the activities at 72 h are similar to that of 48 h^[1].</p> <p>Antitumor agent-36 (compound 1) (24 hours) induces significant apoptosis of tumor cells.^[1]</p> <p>Antitumor agent-36 (compound 1) (24 hours) are effective in modulating the expression of apoptotic proteins in tumor cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>murine tumor cell line 4T1 and human tumor cell line A549</td> </tr> <tr> <td>Concentration:</td> <td>5 and 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Exhibited effective apoptosis induction of both A549 and 4T1 cells after 24 h treatment.</td> </tr> </table>	Cell Line:	murine tumor cell line 4T1 and human tumor cell line A549	Concentration:	5 and 10 μ M	Incubation Time:	24 hours	Result:	Exhibited effective apoptosis induction of both A549 and 4T1 cells after 24 h treatment.
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Concentration:	5 and 10 μ M								
Incubation Time:	24 hours								
Result:	Exhibited effective apoptosis induction of both A549 and 4T1 cells after 24 h treatment.								

REFERENCES

[1]. Li Z, et al. Ketoprofen and Loxoprofen Platinum(IV) Complexes Displaying Antimetastatic Activities by Inducing DNA Damage, Inflammation Suppression, and Enhanced Immune Response. *J Med Chem.* 2021;64(24):17920-17935.

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

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