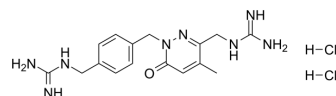


DNA crosslinker 4 dihydrochloride

Cat. No.:	HY-144337
CAS No.:	2761734-23-8
Molecular Formula:	C ₁₆ H ₂₄ Cl ₂ N ₈ O
Molecular Weight:	415.32
Target:	DNA Alkylator/Crosslinker
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DNA crosslinker 4 (dihydrochloride) is a potent DNA minor groove binder. DNA crosslinker 4 (dihydrochloride) has certain inhibitory activity against cancer cells NCI-H460, A2780 and MCF-7. DNA crosslinker 4 (dihydrochloride) can be used for researching anticancer ^[1] .								
IC₅₀ & Target	IC ₅₀ : 21 ± 1 μM in A2780 cells ^[1]								
In Vitro	<p>DNA crosslinker 4 (dihydrochloride) (compound 2) (100 μM; 48 h or 96 h) exhibits inhibitory activity against NCI-H460, A2780 and MCF-7^[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>NCI-H460, A2780 and MCF-7^[1]</td> </tr> <tr> <td>Concentration:</td> <td>100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h (NCI-H460) and 96 h (A2780 and MCF-7)</td> </tr> <tr> <td>Result:</td> <td>Exhibited inhibitory activity against NCI-H460, A2780 and MCF-7 with inhibition percentage of 34%, 59% and 22% at 100 μM; and showed an IC₅₀ value of 21 ± 1 μM in A2780 cells.</td> </tr> </table>	Cell Line:	NCI-H460, A2780 and MCF-7 ^[1]	Concentration:	100 μM	Incubation Time:	48 h (NCI-H460) and 96 h (A2780 and MCF-7)	Result:	Exhibited inhibitory activity against NCI-H460, A2780 and MCF-7 with inhibition percentage of 34%, 59% and 22% at 100 μM; and showed an IC ₅₀ value of 21 ± 1 μM in A2780 cells.
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REFERENCES

[1]. Costas-Lago MC, et al. Novel Pyridazin-3(2H)-one-Based Guanidine Derivatives as Potential DNA Minor Groove Binders with Anticancer Activity. ACS Med Chem Lett. 2022;13(3):463-469. Published 2022 Feb 10.

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

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