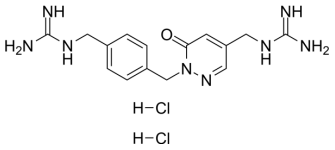
DNA crosslinker 2 dihydrochloride

Cat. No.:	HY-144335
CAS No.:	2761734-25-0
Molecular Formula:	$C_{15}H_{22}Cl_2N_8O$
Molecular Weight:	401.29
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 2 (dihydrochloride) is a potent DNA minor groove binder with DNA binding affinity (ΔT_m) of 1.2 °C. DNA crosslinker 2 (dihydrochloride) has certain inhibitory activity against cancer cells NCI-H460, A2780 and MCF-7. DNA crosslinker 2 (dihydrochloride) can be used for researching anticancer[1].
IC_{50} & Target	DNA minor groove[1]
In Vitro	DNA crosslinker 2 (dihydrochloride) (compound 3) (100 μM; 48 h or 96 h) exhibits inhibitory activity against NCI-H460, A2780 and MCF-7[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay

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 35%, 33% and 23% at 100 μM.

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.

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