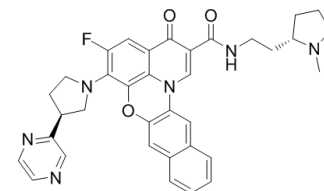


Quarfloxin

Cat. No.:	HY-14776
CAS No.:	783364-52-3
Molecular Formula:	C ₃₅ H ₃₃ FN ₆ O ₃
Molecular Weight:	604.67
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	Quarfloxin (CX 3543), a fluoroquinolone derivative with antineoplastic activity, targets and inhibits RNA pol I activity, with IC ₅₀ values in the nanomolar range in neuroblastoma cells. Quarfloxin disrupts the interaction between the nucleolin protein and a G-quadruplex DNA structure in the ribosomal DNA (rDNA) template ^[1] .
IC ₅₀ & Target	RNA pol I ^[1] .
In Vitro	Quarfloxin (CX 3543) effectively inhibits the growth of neuroblastoma cells in vitro. MNA (or high c-Myc) and wt-TP53 cell lines are found to be more sensitive to Quarfloxin. Quarfloxin induces DNA damage, p53 signaling, cell death, and cell cycle arrest in neuroblastoma cell lines ^[1] .

REFERENCES

[1]. Hald ØH, et al. Inhibitors of ribosome biogenesis repress the growth of MYCN-amplified neuroblastoma. *Oncogene*. 2018 Dec 12.

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

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