

Product Datasheet

Quarfloxin

Catalog No. **BP-02091** · CAS **865311-47-3** · Form **free base** · Physical state **other** · Color **light yellow to yellow** · Version **1.0** · Revision **2026-09-14**

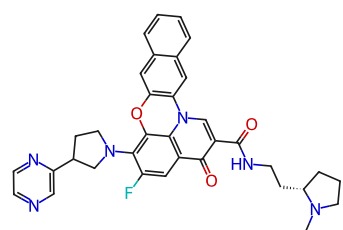
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Target DNA/RNA Synthesis	Research area Cancer
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Molecular formula **C₃₅H₃₃FN₆O₃**

Molecular weight **604.6733**

STRUCTURE



DESCRIPTION

Quarfloxin is a fluoroquinolone derivative with antineoplastic activity with IC50 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 template.

BIOLOGICAL ACTIVITY

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.

Solution in vitro: Quarfloxin is suspended in DMSO to a stock of 10 mM.

SOLUBILITY

Soluble in DMSO : 5 mg/mL (8.27 mM; Need ultrasonic; Dissolution under acidic conditions (HCl adjust to pH ≈3; hygroscopic DMSO has a significant impact on product solubility, please use newly opened DMSO)

REFERENCES

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

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