Product Data Sheet

Product Name: Quarfloxin (CX 3543)
Cat. No.: GC33199

Chemical Properties

Cas. No.	783364-52-3		
SMILES	FC1=C(N2CC[C@H](C3=NC=CN=C3)C2)C(OC4=C5C=C6C(C=CC=C6)=C4)=C(N5C=C(C(NCC[C@H]7N(C)CCC7)=O)C8=O)C8=C1		
Formula	$C_{35}H_{33}FN_6O_3$	M.Wt	604.67
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Quarfloxin (CX 3543)		

Background

Quarfloxin (CX 3543), a fluoroquinolone derivative with antineoplastic activity, targets and inhibits RNA pol I 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 (rDNA) template[1].

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 and induces DNA damage, p53 signaling, cell death, and cell cycle arrest in neuroblastoma cell lines[1].

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

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