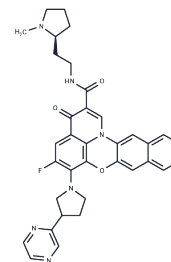


Quarfloxin

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 865311-47-3 |
| Formula: | C35H33FN6O3 |
| Molecular Weight: | 604.67 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|---------------|---|
| Description | Quarfloxin (CX-3543) 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. |
| Targets(IC50) | DNA/RNA Synthesis |
| In vitro | Quarfloxin effectively inhibits the growth of neuroblastoma cells in vitro. Quarfloxin and induces DNA damage, p53 signaling, cell death, and cell cycle arrest in neuroblastoma cell lines[1]. |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 55 mg/mL (90.96 mM), Sonication is recommended. H2O: 1 mg/mL (1.65 mM), when pH is adjusted to 5 with 0.1 M HCl. Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.6538 mL | 8.269 mL | 16.5379 mL |
| 5 mM | 0.3308 mL | 1.6538 mL | 3.3076 mL |
| 10 mM | 0.1654 mL | 0.8269 mL | 1.6538 mL |
| 50 mM | 0.0331 mL | 0.1654 mL | 0.3308 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Machine learning-enabled virtual screening indicates the anti-tuberculosis activity of aldoxorubicin and quarfloxin with verification by molecular docking, molecular dynamics simulations, and biological evaluations

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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