

[Open Peer Review on Qeios](#)

# Fluoroquinolone Antibiotic

National Cancer Institute

## Source

National Cancer Institute. *Fluoroquinolone Antibiotic*. NCI Thesaurus. Code C126712.

Any quinolone antibiotic with a fluorine (F) atom attached to the quinolone structure, with broad-spectrum antibacterial activity. Fluoroquinolones diffuse through the bacterial cell wall and act by inhibiting bacterial topoisomerase II, DNA gyrase and/or bacterial topoisomerase IV, which are enzymes involved in bacterial DNA replication. This prevents DNA replication and leads to a blockage of bacterial cell proliferation.