Moxifloxacin is a fluoroquinolone antibiotic commonly used to treat ocular infections such as bacterial conjunctivitis as well as sinus and lung infections such as pneumonia. Moxifloxacin displays antibacterial efficacy against both gram negative and gram positive bacteria, preventing DNA synthesis in bacterial pathogens by inhibiting topoisomerase IV and bacterial DNA gyrase. This compound is currently being examined as a conjunctive therapy with anticancer agents against several forms of cancer due to its topoisomerase II inhibition. Combining moxifloxacin with anticancer agents yields a cytotoxic drug sparing effect due to the synergism of the mechanisms of action between moxifloxacin and the anticancer drugs.

References


Caution: This product is intended for laboratory and research use only. It is not for human or drug use.