Oxolinic acid is a fluoroquinolone antibiotic that is used in plants and veterinary medicine; its antibacterial efficacy stems from inhibition of bacterial DNA gyrase. When combined with metals such as ruthenium, manganese, nickel, or zinc, the metal-oxolinic acid complex intercalates with DNA. Additionally, oxolinic acid may lower the threshold for induction of seizure through activation of excitatory amino acid receptors.

References


