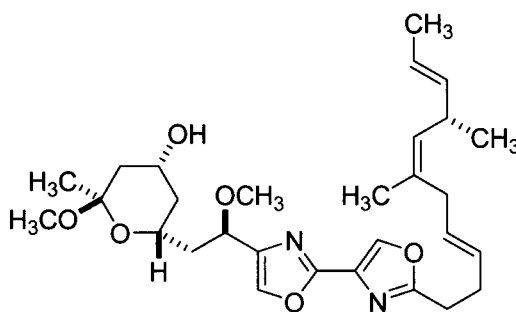
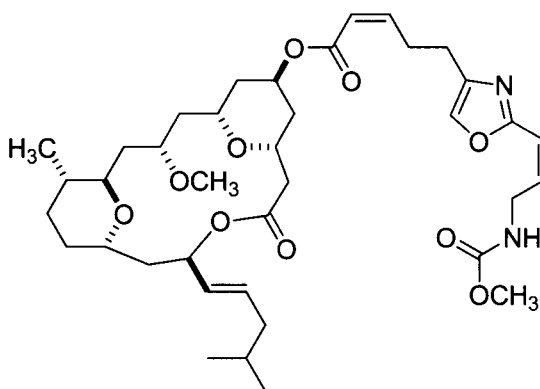


with an experimental pK_a value of 24.8.³ The most acidic proton in isoxazole is the C5 proton, with a theoretical pK_a value close to the pK_a value of oxazole at ~ 27 .² Oxazole, benzoxazole, and isoxazole are weak bases at nitrogen with a conjugate acid pK_a value for oxazole and benzoxazole of ~ 1 , and a conjugate acid pK_a value for isoxazole of ~ 3 .

Oxazoles are known in natural products and also find wide incorporation into synthetic medicinal compounds. Oxazoles can be found in the natural products (-)-hennoxazole A (antiviral)⁴ and leucascandrolide A (cytotoxic and antifungal).⁵ Benzoxazoles and isoxazoles are less common in natural products. Pseudo-pteroxazole (benzoxazole-containing anti-tubercular agent)⁶ and ibotenic acid (isoxazole-containing neurotoxin) are two examples.



(-)-hennoxazole A



leucascandrolide A

Oxazoles and benzoxazoles with an aryl substituent at C2 are strongly fluorescent and can act as an optical brightener. Some washing agents include 4,4'-bis(benzoxazol-2-yl)stilbene as an additive. The additive is