



LKT Laboratories, Inc.

Oxolinic Acid

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Product Information

Product ID O9458

CAS No. 14698-29-4

Chemical Name

Synonym

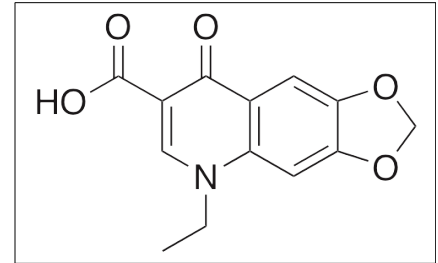
Formula $C_{13}H_{11}NO_5$

Formula Wt. 261.23

Melting Point

Purity $\geq 98\%$

Solubility



Bulk quantities available upon request

Product ID	Size
O9458	5 g
O9458	25 g

Store Temp Ambient

Ship Temp Ambient

Description 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 Kljun J, Bratsos I, Alessio E, et al. New uses for old drugs: attempts to convert quinolone antibacterials into potential anticancer agents containing ruthenium. *Inorg Chem.* 2013 Aug 5;52(15):9039-52. PMID: 23886077.

Tarushi A, Lafazanis K, Kljun J, et al. First- and second-generation quinolone antibacterial drugs interacting with zinc(II): structure and biological perspectives. *J Inorg Biochem.* 2013 Apr;121:53-65. PMID: 23353082.

Kwon HR, Choi GJ, Choi YH, et al. Suppression of pine wilt disease by an antibacterial agent, oxolinic acid. *Pest Manag Sci.* 2010 Jun;66(6):634-9. PMID: 20151406.

Williams PD, Helton DR. The proconvulsive activity of quinolone antibiotics in an animal model. *Toxicol Lett.* 1991 Sep;58(1):23-8. PMID: 1897004.

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