

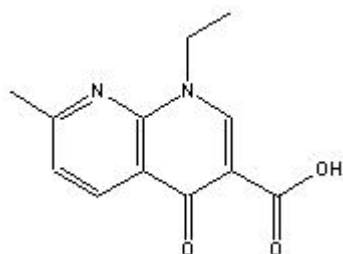
TECHNICAL INFORMATION

Catalog Number: 151724, 190246, 194794

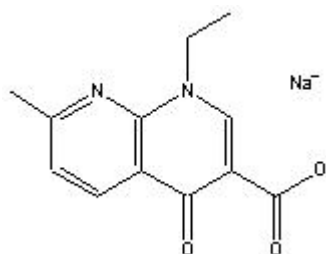
Nalidixic Acid

Structure:

Free Acid



Sodium Salt



Molecular Formula:

Free Acid

C₁₂H₁₂N₂O₃

Sodium Salt

C₁₂H₁₁N₂O₃Na

Molecular Weight:

232.2

254.2

CAS #

389-08-2

3374-05-8

Synonyms: 1-Ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid; 1,4-Dihydro-1-ethyl-7-methyl-1,8-naphthyridin-4-one-3-carboxylic acid; 3-Carboxy-1-ethyl-7-methyl-1,8-naphthyridin-4-one; 1-Ethyl-7-methyl-1,8-naphthyridin-4-one-3-carboxylic acid

Physical Description: Off-white powder

Solubility:

Free Acid: Soluble in chloroform (35 mg/ml - clear, colorless to faint yellow solution), toluene (1.6 mg/ml), methanol (1.3 mg/ml); slightly soluble in ethanol (0.9 mg/ml), water (0.1 mg/ml) or ether (0.1 mg/ml).¹ Stock solutions can be aliquoted and stored at -20°C for up to approximately 3 to 4 months.

Sodium Salt: Soluble in water (100 mg/ml - clear, light yellow solution). Stock solutions can be aliquoted and stored at -20°C for up to approximately 3 to 4 months.

Description: An antibacterial agent; a bacterial DNA polymerase (DNA gyrase) inhibitor.^{5,6,8} An inhibitor of avian myeloblastoma virus reverse transcriptase.³ Typically used at a concentration of 15 ug/ml in molecular biology.

Availability:

Catalog Number	Description	Size
190246	Nalidixic Acid, Free Acid	5 g 25 g 100 g
151724	Nalidixic Acid, Sodium Salt	1 g 5 g 25 g 100 g

194794	Nalidixic Acid, Sodium Salt, molecular biology reagent, gamma-irradiated	15 mg
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References:

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