Penicinoline
Item No. 29932

CAS Registry No.: 1214268-60-6
Formal Name: 1,4-dihydro-4-oxo-2-(1H-pyrrol-2-yl)-3-quinolinecarboxylic acid
MF: C_{14}H_{10}N_{2}O_{3}
FW: 254.2
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years
Item Origin: Fungi/Penicillium sp.

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Penicinoline is supplied as a solid. A stock solution may be made by dissolving the penicinoline in the solvent of choice, which should be purged with an inert gas. Penicinoline is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide.

Description

Penicinoline is an alkaloid that has been found in *Penicillium* and has antimalarial, insecticidal, and anticancer activities.1,2 It is active against chloroquine-sensitive and -resistant strains of *P. falciparum* (IC_{50} = 25 µM for both).1 Penicinoline (1,000 ppm) is also active against the aphid *A. gossypii*.2 It inhibits proliferation of 95-D and HepG2 cancer cells (IC_{50} = 0.57 and 6.5 µg/ml, respectively) but not HeLa, KB, KBv200, or Hep-2 cells (IC_{50} = >100 µg/ml).

References