Tildipirosin
Item No. 17089

CAS Registry No.: 328898-40-4
Formal Name: 20-deoxo-23-deoxy-5-O-[3,6-dideoxy-3-(dimethylamino)-β-D-glucopyranosyl]-20,23-di-1-piperidinyl-tylonolide
MF: C_{41}H_{71}N_{3}O_{8}
FW: 734.0
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A white solid

Laboratory Procedures
For long term storage, we suggest that tildipirosin be stored as supplied at -20°C. It should be stable for at least two years. Tildipirosin is supplied as a white solid. A stock solution may be made by dissolving the tildipirosin in the solvent of choice. Tildipirosin is soluble in organic solvents such as ethanol, DMSO, dimethyl formamide, and methanol which should be purged with an inert gas.

Tildipirosin is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Tildipirosin is a 16-membered macrolide used as an antibiotic in veterinary medicine. Like other macrolides, it inhibits protein synthesis in bacteria and blocks the production of biofilms.\(^1\)\(^2\) Tildipirosin is particularly effective against Gram-negative pathogens (MIC = 0.25-1 µg/ml against \(P.\) multocida and \(M.\) haemolytica).\(^1\)\(^3\) It is commonly used against respiratory infections in swine and cattle.\(^1\)\(^3\)

References

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