Indanomycin
Item No. 21761

CAS Registry No.: 66513-28-8
Formal Name: \((\alpha R,2R,5S,6R)-6-[(1E,3E)-1-ethyl-4-([1S,3aR,4S,5S,7aS)-1-ethyl-2,3,3a,4,5,7a-hexahydro-4-(1H-pyrrol-2-ylcarbonyl)-1H-inden-5-yl]-1,3-butadien-1-yl]tetrahydro-\alpha,5-dimethyl-2H-pyran-2-acetic acid\)

Synonym: X 14547A
MF: \(C_{31}H_{43}NO_4\)
FW: 493.7
Purity: \(\geq 95\%\)
Supplied as: A solid
Storage: -20°C
Stability: \(\geq 2\) years

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

Laboratory Procedures

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

Indanomycin 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.

Description

Indanomycin is an antibiotic of the pyrroloketoindane class, which includes an unusual indane ring structure.\(^1\) It has bactericidal activity against Gram-positive bacteria, with minimum inhibitory concentration (MIC) values of \(\leq 0.2\) \(\mu\)g/ml, and insecticidal activity.\(^2,3\)

References