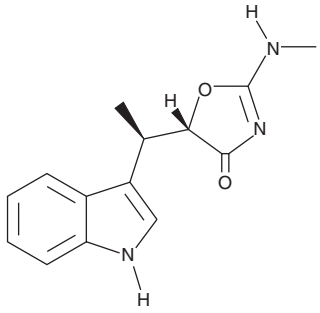
PRODUCT INFORMATION

Indolmycin

Item No. 15385

CAS Registry No.:	21200-24-8
Formal Name:	5S-[(1R)-1-(1H-indol-3-yl)ethyl]-2-(methylamino)-4(5H)-oxazolone
Synonyms:	PA 155A, TAK-083
MF:	$C_{14}H_{15}N_3O_2$
FW:	257.3
Purity:	≥95%
Supplied as:	A powder
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Bacterium/*Streptomyces sp.*



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

Laboratory Procedures

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

Description

Indolmycin is an antibiotic isolated from various *Streptomyces* strains that functions by competitively inhibiting the prokaryotic tryptophanyl-tRNA synthetase (IC_{50} = 30 µM) without significantly affecting the corresponding eukaryotic synthetase.[1,2] It exhibits antibacterial activity against mupirocin- and fusidic acid-resistant strains of *Staphylococci*.[3]

References

1. Werner, R.G., Thorpe, L.F., Reuter, W., *et al.* Indolmycin inhibits prokaryotic tryptophanyl-tRNA ligase. *Eur. J. Biochem.* **68(1)**, 1-3 (1976).
2. Bogosian, G., Haydock, P.V., and Somerville, R.L. Indolmycin-mediated inhibition and stimulation of transcription at the trp promoter of *Escherichia coli*. *J. Bacteriol.* **153(2)**, 1120-1123 (1983).
3. Hurdle, J.G., O'Neill, A.J., and Chopra, I. Anti-staphylococcal activity of indolmycin, a potential topical agent for control of staphylococcal infections. *J. Antimicrob. Chemother.* **52(4)**, 549-552 (2004).

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