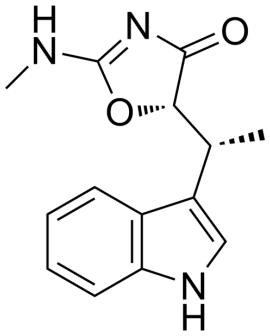
Indolmycin

Cat. No.:	HY-117319
CAS No.:	21200-24-8
Molecular Formula:	$C_{14}H_{15}N_3O_2$
Molecular Weight:	257.29
Target:	Antibiotic; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Indolmycin (TAK-083), an antibiotic, is a competitive inhibitor of prokaryotic tryptophanyl-tRNA synthetase (TrpS). Indolmycin (TAK-083) possesses both anti-viral and anti-bacterial activity[1][2][3].
In Vitro	Indolmycin was bacteriostatic and demonstrated good activity against MSSA (methicillinsusceptible Staphylococcus aureus), MRSA (methicillin-resistant S. aureus) and VISA (vancomycinintermediate S. aureus), including strains resistant to mupirocin or fusidic acid. Indolmycin MICs for 20 strains ranged from 8 to 32 mg/L, whereas asingle strain exhibited high-level resistance (MIC 128 mg/L)[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. R G Werner, et al. Indolmycin inhibits prokaryotic tryptophanyl-tRNA ligase. Eur J Biochem. 1976 Sep;68(1):1-3.

[2]. Julian G Hurdle, et al. Anti-staphylococcal activity of indolmycin, a potential topical agent for control of staphylococcal infections. J Antimicrob Chemother. 2004 Aug;54(2):549-52.

[3]. M R Harnden, et al. Thiazolinone analogues of indolmycin with antiviral and antibacterial activity. J Med Chem. 1978 Jan;21(1):82-7.

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