

Insights into Structure–Activity Relationships of Bacterial RNA Polymerase Inhibiting Corallopyronin Derivatives

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Abstract

The new compound precorallopyronin A is a stable precursor in the biosynthesis of the antibiotic corallopyronin A. This natural product was isolated from the producer strain *Corallococcus coralloides* B035. Together with various semisynthetically obtained corallopyronin A derivatives its antibacterial effects were evaluated. In combination with an X-ray crystallization model limitations of derivatization possibilities were revealed. The antibiotic potential of the novel precorallopyronin A is comparable to that of the structurally more complex corallopyronin A, which highlights that the additional chiral center is not essential for activity.

Beteiligte Forschungseinheiten

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