

Formation of the aureothin tetrahydrofuran ring by a bifunctional cytochrome p450 monooxygenase.

He J, Müller M, Hertweck C (2004) Formation of the aureothin tetrahydrofuran ring by a bifunctional cytochrome p450 monooxygenase. *J Am Chem Soc* 126(51), 16742-16743.

[Details](#)



Abstract

The polyketide antibiotic aureothin, produced by *Streptomyces thioluteus*, is equipped with a rare exomethylene-tetrahydrofuran moiety. Cloning, heterologous expression, and inactivation experiments reveal that AurH, a bifunctional cytochrome P450 monooxygenase, is required and sufficient for the stereoselective synthesis of the furan ring, involving the subsequent formation of two new C-O bonds.

Beteiligte Forschungseinheiten

[Biomolekulare Chemie](#) [Christian Hertweck](#) [Mehr erfahren](#)

Leibniz-HKI-Autor*innen



Christian Hertweck

[Details](#)

Identifier

PMID: 15612710