

Assessing oxazole bioisosteres as mutasynthons on the rhizoxin assembly line.

Kusebauch B, Brendel N, Kirchner H, Dahse HM, Hertweck C (2011) Assessing oxazole bioisosteres as mutasynthons on the rhizoxin assembly line. *Chembiochem* 12(15), 2284-2288.

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Abstract

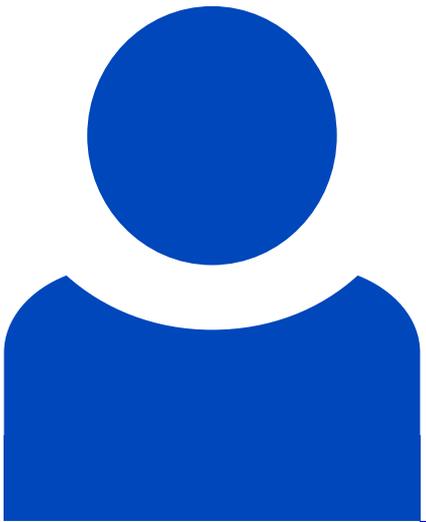
Chain armor against tumor cells: The oxazole side chain in the antimitotic agent rhizoxin S2 (1) was successfully replaced through mutasynthesis by using an engineered mutant impaired in heterocyclization. Incorporation of 12 non-natural surrogates into fully processed rhizoxin analogues revealed a remarkable substrate flexibility of the PKS-NRPS hybrid.

Beteiligte Forschungseinheiten

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