

Epidithiodiketopiperazine biosynthesis: A four-enzyme cascade converts glutathione conjugates into transannular disulfide bridges.

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Abstract

Enzyme quartet: Isolation of the first sulfur-bearing intermediate of the gliotoxin pathway in *Aspergillus fumigatus* and successful in vitro conversion of the bisglutathione adduct into an intact epidithiodiketopiperazine by a four-enzyme cascade (including glutamyltransferase GliK and dipeptidase GliJ) revealed an outstanding adaptation of a primary metabolic pathway into natural product biosynthesis that is widespread in fungi.

Beteiligte Forschungseinheiten

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