

Two sequence elements of glycosyltransferases involved in urdamycin biosynthesis are responsible for substrate specificity and enzymatic activity.

Hoffmeister D, Ichinose K, Bechthold A (2001) Two sequence elements of glycosyltransferases involved in urdamycin biosynthesis are responsible for substrate specificity and enzymatic activity. *Chem Biol* 8, 557-567.

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Abstract

Two deoxysugar glycosyltransferases (GTs), UrdGT1b and UrdGT1c, involved in urdamycin biosynthesis share 91% identical amino acids. However, the two GTs show different specificities for both nucleotide sugar and acceptor substrate. Generally, it is proposed that GTs are two-domain proteins with a nucleotide binding domain and an acceptor substrate site with the catalytic center in an interface cleft between these domains. Our work aimed at finding out the region responsible for determination of substrate specificities of these two urdamycin GTs.

Beteiligte Forschungseinheiten

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Identifier

PMID: 11410375