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Regio- and Stereoselective Hydrogenation of 2'-Demethoxy-2'-methyldehydrogriseofulvin, a Symmetrical Substrate, to (+)-2'-Demethoxy-2'-methylgriseofulvin with a Cell-Free System of *Streptomyces cinereococatus**

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小田泰子, 橋本文江, 佐藤良博

We recently demonstrated the stereospecific microbial transformation of (–)-dehydrogriseofulvin derivatives by *Streptomyces cinereococatus* NRRL 3443. In particular, the stereospecific microbial transformation of both (–)- and (+)-dehydrogriseofulvin to (+)-griseofulvin has been investigated. However, the microbial transformation of (+)-2'-demethoxydehydrogriseofulvin non-regiospecifically afforded two reduced products. This paper describes the enzymatic hydrogenation of 2'-demethoxy-2'-methyldehydrogriseofulvin, which is a symmetrical substrate, with a cell-free system of *Streptomyces cinereococatus* NRRL 3443. Enzymatic hydrogenation of 2'-demethoxy-2'-methyldehydrogriseofulvin with a cell-free system of *Streptomyces cinereococatus* afforded (+)-2'-demethoxy-2'-methylgriseofulvin. The results demonstrated that when the 2'-position of (–)-dehydrogriseofulvin was substituted with a methyl group, its hydrogenation with the cell-free system occurred stereoselectively at the 5', 6'-position.

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