Title	Structure of (+)-epigriseofulvin
Sub Title	
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Publisher	共立薬科大学
Publication year	1985
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.30 (1985.) ,p.104- 104
JaLC DOI	
Abstract	
Notes	抄録
Genre	Technical Report
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000030-0104

No. 30 (1985)

Structure of (+)-Epigriseofulvin*

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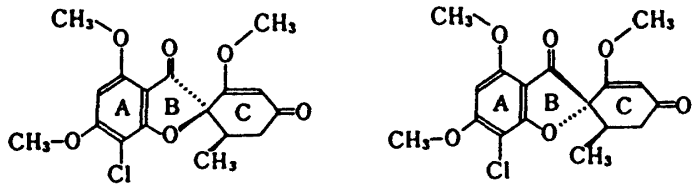
In connection with our studies on both the microbial transformation of dehydrogriseofulvin analogs and the structure-activity relation of griseofulvin derivatives in their action on microtublues, it was necessary to determine the crystal structure of (+)-epigriseofulvin (**1**), since the structures of the C rings of **1** and (+)-griseofulvin (**2**) were used as the standard conformations in the elucidation of the structures of many related derivatives.



1 **2**

Chart 1.

The crystal and molecular structure of **1** were elucidated by X-ray structure analysis. The crystal belongs to a triclinic space group Pl, with the unit cell parameters of a=11.718 (4), b=9.800 (3), c=9.870 (3)Å, α=103.49 (3), β=102.38 (3), γ=96.26 (3)°, v=1061 (1)A^3. The unit cell contains two crystallographically independent **1** molecules and two chloroform molecules. The structure was solved by the direct method and refined to an R-value of 0.093 for 3971 non-zero reflections. No significant conformational differences between the two molecules were observed. The cyclohexenone rings take half-chair conformations with planar conjugated enone systems.

* 本報告は *Chem. Pharm. Bull.*, 33 (1), 158—164 (1985) に発表

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