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Authors: Yusuke Akagi, Akiko Nagata, Minami Odagi, Kazuo Nagasawa



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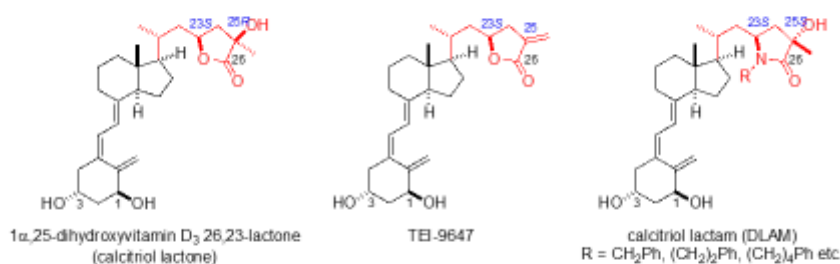
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Synthetic studies of (23*S*,25*R*)-1 α ,25-dihydroxyvitamin D₃ 26,23-lactone (calcitriol lactone) and its derivatives

Yusuke Akagi, Akiko Nagata, Minami Odagi, *Kazuo Nagasawa

Tokyo University of Agriculture and Technology, Department of Biotechnology and Engineering, Japan

Graphical Abstract



Highlights

- Syntheses of calcitriol lactone from four groups including our group were reviewed.
- We achieved synthesis of calcitriol lactone by hydration with methylene lactone.
- Synthesis and evaluation of calcitriol lactone derivatives were reviewed.

Abstract

(23*S*,25*R*)-1 α ,25-Dihydroxyvitamin D₃ 26,23-lactone (calcitriol lactone) is a major metabolite of 1 α ,25-dihydroxyvitamin D₃ that binds to vitamin D receptor (VDR) and exhibits various biological activities. This lactone and its derivatives are considered to have potential as drug candidates to

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