

# Microbial transformations of isocupressic acid.

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## Abstract

Microbial transformations of the labdane-diterpene isocupressic acid (1) with different microorganisms yielded several oxygenated metabolites that were isolated and characterized by MS and NMR spectroscopic analyses. *Nocardia aurantia* (ATCC 12674) catalyzed the cleavage of the 13,14-double bond to yield a new nor-labdane metabolite, 2. *Cunninghamella elegans* (-) (NRRL 1393) gave 7 $\beta$ -hydroxyisocupressic acid (3) and labda-7,13(E)-diene-6 $\beta$ ,15,17-triol-19-oic acid (4), and *Mucor mucedo* (ATCC 20094) gave 2 $\alpha$ -hydroxyisocupressic acid (5) and labda-8(17),14-diene-2 $\alpha$ ,13-diol-19-oic acid (6).