6,9-Dihydroxy-3(15)-caryophyllen-4,8-dione – a New Antibiotic from a *Marasmius* Species

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6,9-Dihydroxy-3(15)-caryophyllen-4,8-dione (1), a new cytotoxic caryophyllane sesquiterpene, was isolated from fermentations of a tropical *Marasmius* species. The structure was established by spectroscopic methods. 1 exhibits strong cytotoxic effects on different cell lines, but only weak antimicrobial activities. 1 weakly inhibits the incorporation of leucine and thymidine into proteins and DNA of mammalian cells and interferes with the aggregation of human and bovine platelets.