

Exploring the Bioactive Components from Coral-symbiont Microbes

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Abstract

Seven natural products, so far, from marine organisms and/or their analogues have been approved by U.S. Food and Drug Administration (FDA). A series of studies indicated some of these success entities should originate from the marine symbiont microbes. In the present study, we plan to focus on the isolation and identification of coral-symbiont bacteria with anti-microbial activity. From the soft coral collected in Wan-Li Tong, Pingtung County, we isolate a bioactive coral-symbiont bacterium and further identified as the genus of *Microbulbifer* based on 16S rRNA gene sequencing analysis. The disc diffusion test shows that ethyl-acetate extract of *Microbulbifer* sp. have the apparent anti-microbial activity against *Staphylococcus aureus* and *Bacillus cereus* with the inhibition zone diameters, 22 and 19 mm, respectively. Besides, we also isolated some diketopiperazines. The bioactivity of these compounds is under investigation.