## C-15 halogenated acetogenin with antibacterial activity against food pathogens

## Abstract

As part of our continuous effort in search of bioactive secondary metabolites from marine organisms, we studied a specimen of red algae, Laurencia nangii Masuda from Banggi Island, Kudat District, Sabah. One C-15 acetogenin was isolated and identified as Z-dihydrorhodophytin (1, 15%). This compound showed 100% inhibition against the tested bacteria at 30 µgdisc-1. MIC values for Salmonella enteritidis, Vibrio cholerae and Staphalococcus aereus were 1.25 µgdisc-1, 2.25 µgdisc-1 and 2.25 µgdisc-1, respectively ; while Escherichia coli, Salmonella typhii and Salmonella thphymunium were inhibited at MIC value of 7.25 µgdisc -1. This study showed that Z-dihydrorhodophytin (1) has significant antibacterial activity against the tested food pathogens and may have potential to be used as lead pharmaceutical drug candidate in combating "antibiotic resistant bacteria".