

TWO NEW BIOGENETICALLY RELATED PRENYLATED O- HETEROCYCLIC COMPOUNDS FROM *GARCINIA* SPECIES

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About sixteen species of *Garcinia* of the family Guttiferae have been chemically investigated (Sultanbawa, 1973) and several interesting prenylated xanthenes and biflavonoids have been isolated and characterised. Some of these species have been used in the native system of medicine (Chandrasena, 1935).

In this investigation an unidentified *Garcinia* species has been chemically investigated and herein we report the isolation of two new natural products. One is a geranylated diprenylated flavonol identified as 2'-(2,6-dimethyl octa-2,6-dienyl)-6',8-di (2-methyl but-2-enyl)-3',4',5-trihydroxy-3,7-dimethoxy flavone. The other compound was found to be a catechin and has been found to be biogenetically related to the above flavone. This catechin has been shown to be [2-(2,6-dimethyl octa-2,6-dienyl)-3,4-dimethoxy-6-(2-methyl but-2-enyl)-phenyl]-3,4-dihydro-2H-I-benzopyran-5,7-diol.

The structures of these new O-heterocyclic compounds have been assigned using UV, IR ¹H-N. M. R, M. S. and ¹³C N. M. R, data.

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References:

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2. J. P. C. Chandrasena, *The Chemistry and Pharmacology of Ceylon and Indian Medicinal Plants*, 1935, Colombo, H and C. Press.