

7,4'-DIMETHYLAROMADENDRIN AND ITS 5-GLUCOSIDE FROM
PODOCARPUS NERIIFOLIUS

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Plant *Podocarpus nerifolius* D. Don (*Podocarpaceae*). *Source* Collected at Sipore, West Bengal, India. *Previous work*: On sister species.¹⁻³

Present work: Fresh leaves of the plant were extracted with hot acetone, and the concentrate fractionated into light petrol, C₆H₆, EtOAc and acetone. The benzene fraction yielded a compound, purified by fractional crystallization from CHCl₃-C₆H₆ (m.p. 207°) and characterized as 7,4'-dimethylaromadendrin by UV and NMR spectra of its acetate.⁴ The acetone fraction yielded a glycoside which was also purified by fractional crystallization from MeOH-EtOH (m.p. 215°). On hydrolysis with 10% HCl, it gave 7,4'-dimethylaromadendrin (NMR of acetate) and glucose (paper chromatography). The glucoside was characterized as 7,4'-dimethyl aromadendrin 5-glucoside by NMR spectra of its TMS derivative.

This is the first report of the isolation and characterization of 7,4'-dimethylaromadendrin and its 5-glucoside, previously found in *Cephalanthus spatheliferus* (Rubiaceae)⁴, from *Podocarpus* species.

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¹ MIURA, H, KIHARA, T and KAWANO, N (1969) *Chem Pharm Bull* (Tokyo) **17**, 150, (1968) *Tetrahedron Letters* 2339

² CHEXAL, K K, HANDA, B K, RAHMAN, W and KAWANO, N (1970) *Chem Ind (London)* 28

³ HAMEED, N, ILYAS, M, RAHMAN, W, OKIGAWA, M and KAWANO, N (1973) *Phytochemistry*, **12**, 1497

⁴ LIMA, O A, POLONSKY, J (1973) *Phytochemistry*, **12**, 913