

A BIOSYNTHETICALLY IMPORTANT QUINONE-METHIDE
TRITERPENOID FROM CASSINE BALAE

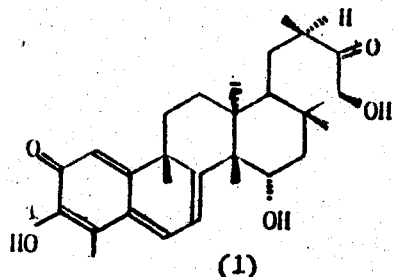
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Recently we reported the structures of balaenol and balaenonol, two new 14(15)-ene-quinone-methide triterpenoids encountered in Cassine balae, a plant of the family Celastraceae. We now wish to report a minor quinonemethide triterpenoid present in this plant whose structure has been established as 15 α , 22 β -dihydroxytingenone (1), a probable biosynthetic precursor of 14(15)-ene-quinone-methide triterpenoids.

The structure of this new quinone-methide triterpenoid was elucidated as 15 α , 22 β -dihydroxytingenone (1) from its spectral data including two dimensional heteronuclear ^1H - ^{13}C shift correlated NMR spectra and NOE studies.



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References:

Fernando, H.C. Gunatilaka, A.A.L., Kumar, V., Weeratunga, G.,
Tezuka, Y. and Kikuchi, T. (1988) Tetrahedron Letters, **29**:387.