

# Catechin-3-*O*-rhamnoside chain extender units in polymeric procyanidins from mangrove bark

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## Abstract

Acid-catalysed cleavage of 'purified' condensed tannin isolates from *Bruguiera gymnorrhiza* (tancang) bark in the presence of phloroglucinol as a capture nucleophile gave, in addition to the expected procyanidin- and prodelphinidin-phloroglucinol adducts, 3-*O*- $\alpha$ -l-rhamnopyranosyl-(+)-catechin-(4 $\alpha$ →2)-phloroglucinol, thus providing evidence for covalently bonded glycoside moieties in the chain extender units of mangrove bark tannins.

**Keywords:** *Bruguiera gymnorrhiza*; Rhizophoraceae; mangrove; bark; condensed tannins; proanthocyanidins; 3-*O*- $\alpha$ -l-rhamnopyranosyl-(+)-catechin-(4 $\alpha$ →2)-phloroglucinol; flavan-3-ol glycosides.