A Bioactive Prodelphinidin from *Mangifera indica* Leaf Extract

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A new trimeric proanthocyanidin, epigallocatechin-3-O-gallat-(4\(\beta\)\(\gamma\) 8)-epigallocatechin-(4\(\beta\)\(\gamma\) 8)-catechin (\(\text{1}\)), was isolated together with three known flavan-3-ols, catechin (\(\text{2}\)), epicatechin (\(\text{3}\)), and epigallocatechin (\(\text{4}\)), and three dimeric proanthocyanidins, 5–7, from the air-dried leaves of *Mangifera indica*. Their chemical structures were determined on the basis of 1D- and 2D-NMR spectra (HSQC, HMBC) of their peracetylated derivatives, MALDI-TOF-mass spectra, and by acid-catalyzed degradation with phloroglucinol. The isolated compounds \(\text{1–7}\) were *in vitro* tested for their inhibitory activities against COX-1 and COX-2. Compound \(\text{1}\) was found to have a potent inhibitory effect on COX-2, while compounds \(\text{1}\) and \(\text{5–7}\) exhibited moderate inhibition against COX-1.

*Key words:* *Mangifera indica*, Proanthocyanidins, COX Inhibitor