A Bioactive Prodelphinidin from *Mangifera indica* Leaf Extract

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A new trimeric proanthocyanidin, epigallocatechin-3-*O*-gallat-(4*b*Ÿ 8)-epigallocatechin-(4*b*Ÿ 8)-catechin (**1**), was isolated together with three known flavan-3-ols, catechin (**2**), epicatechin (**3**), and epigallocatechin (**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 **1**–**7** were *in vitro* tested for their inhibitory activities against COX-1 and COX-2. Compound **1** was found to have a potent inhibitory effect on COX-2, while compounds **1** and **5**–**7** exhibited moderate inhibition against COX-1.

Key words: Mangifera indica, Proanthocyanidins, COX Inhibitor