Supplementary Materials

Figure S1. Proton NMR spectra of compound 31. (CD$_3$OD and (CD$_3$)$_2$SO, 400 MHz).
Figure S2. Proton NMR spectra of compound 31. (CD$_3$OD, 400 MHz).
Figure S3. H-H COSY NMR spectra of compound 31. (CD$_3$OD, 400 MHz).
Figure S4. Ampliation in the sugar region of $^1$H-$^1$H COSY NMR spectra of compound 31. (CD$_3$OD, 400 MHz).
Figure S5. Full ESI MS spectra and MS\textsuperscript{n} fragmentation of Peaks 10 (Leucenin II, 4\textsuperscript{-}methyl-eter), 16 (vitexin), and 19 (orientin) from Tumbo peel extracts.
Figure S6. Photograph of ripe tumbo fruits collected in Pica, Chile in 2011.