Supporting Information

Carijenone, a novel class of bicyclic prostanoid from the eastern Pacific octocoral *Carijoa multiflora*

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Experimental

Carijoa multiflora was collected by SCUBA diving at Estern Pacific of Panama Coast at –18 m. Wet sample (500 g) was extracted with acetone at room temperature. After partition with AcOEt-H₂O, the organic phase was concentrated to give a dark residue (4.15 g) and the extract was chromatographed by flash chromatography on silica gel. The fraction eluted with hexane-EtOAc (1:2) (73.2 mg) was further separated by gel filtration to give a fraction (9.5 mg) which was purified by HPLC (Jaigel-sil column 20 x 250 mm, flow 4.5 ml/min, hexane-EtOAc (1:1)) to give compound **1** (1.3 mg). From the same fraction, the known pregnane steroid **2** (2.4 mg) was isolated after gel filtration chromatography (20.1 mg) and further HPLC (Jaigel-sil column 20 x 250 mm, flow 4.5 ml/min, hexane-AcOEt (1:1)).

Compound 1. Colorless oil; $[\alpha]_D^{25} = +22.2^\circ$ (c 0.1, CHCl₃); IR (film) $\nu_{\max}$ 1736, 1705, 1235 cm⁻¹; EIMS m/z 480/482 [M – H₂O]⁺ (1.4, 0.5), 387/389 [M – C₈H₁₅]⁺ (100, 34), 327/329 [M – C₈H₁₅ – AcOH]⁺ (69, 25), 267/269 [M – C₈H₁₅ – 2 AcOH]⁺ (43, 15); HREIMS 480.1892 (calcd for C₂₅H₃₃O₇Cl, 480.1914), 387.0806 (calcd for C₁₇H₂₀O₈Cl, 387.0846); ¹H and ¹³C NMR, see Table 1.

S2