Supporting data
Polysciosides J and K, two new oleanane-type triterpenoid saponins from the leaves of *Polyscias fruticosa* (L.) Harms. cultivating in An Giang Province, Viet Nam.

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**ABSTRACT**

For the first time, the phytochemical constituents of the leaves of *Polyscias fruticosa* (L.) Harms. cultivating in An Giang Province, Viet Nam were investigated and led to purify two new oleanane-type triterpenoid saponins, named polyscioside J (1) and polyscioside K (2) together with two known saponins, ladyginoside A (3) and chikusetsusaponin IVa (4) using variously chromatographic methods. Saponin (4) was reported for the first time from this species. Their structures were verified by IR, UV, HR-ESI-MS, NMR 1D and 2D experiments and compared with previous literatures.

*Keywords: Polyscias fruticosa; Araliaceae; Polyscioside J; Polyscioside K*
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| No. | $\delta_H$ | $\delta_C$ | $\delta_H$ | $\delta_C$ | Sugar 1 | $\delta_H$ | $\delta_C$ | 2 | $\delta_H$ | $\delta_C$ |
|-----|------------|------------|------------|------------|---------|------------|------------|---|------------|------------|
| 1   | 0.80, 1.36 | 38.4       | 0.72, 1.32 | 38.4       | GlcA    | 106.8      | 4.88 d (7.5) | 104.7 |
| 2   | 1.78, 2.04 | 26.3       | 1.76, 1.96 | 26.3       | 1’      | 4.94 d (8.0) | 74.8       | 4.30 dd (8.0, 8.0) | 80.2 |
| 3   | 3.28 dd (4.0, 11.5) | 89.3 | 3.16 dd (4.5, 11.5) | 89.5 | 2’      | 4.06       | 76.1       | 4.27 dd (8.5, 9.0) | 75.6 |
| 4   | -          | 39.4       | -          | 39.4       | 3’      | 4.26 t (9.0) | 82.7       | 4.32 dd (8.0, 9.0) | 81.7 |
| 5   | 0.72       | 55.7       | 0.64       | 55.6       | 4’      | 4.44 t (8.5) | 75.1       | 4.49 brd (9.5) | 74.6 |
| 6   | 1.22, 1.43 | 18.3       | 1.23, 1.40 | 18.3       | 5’      | 4.61 brd (10.0) | 170.0      | 169.6 |
| 7   | 1.28, 1.42 | 32.7       | 1.24, 1.38 | 33.0       | 6’      | 5'         | 52.4       | 52.5 |
| 8   | -          | 39.9       | -          | 39.6       | OMe     | 3.85 s     | 52.4       | 3.84 s | 52.5 |
| 9   | 1.57       | 48.0       | 1.53       | 47.8       | Glc-1   |           |           |          |            |
| 10  | -          | 36.9       | -          | 36.8       | 1””     | 4.96*      | 105.0      | 104.8 |
| 11  | 1.85       | 23.7       | 1.81 dd    | 23.5       | 2””     | 3.95 t (8.0) | 74.5       | 74.2 |
| 12  | 5.40 br s  | 122.0      | 5.42 br s  | 122.4      | 3””     | 4.12 t (8.5) | 78.1       | 77.8 |
| 13  | -          | 144.5      | -          | 144.7      | 4””     | 4.09       | 71.6       | 71.3 |
| 14  | -          | 42.1       | -          | 42.0       | 5””     | 3.95 t (8.0) | 78.5       | 78.2 |
| 15  | 1.18, 2.31 | 28.2       | 1.13, 2.07 | 28.2       | 6””     | 4.50 brd (10.5) | 62.5       | 62.1 |
| 16  | 1.96, 2.06 | 23.3       | 1.91, 2.09 | 23.6       | Glc-2   | 4.21 dd (5.0, 11.0) | 4.18 dd (6.0, | 104.9 |
| 17  | -          | 47.0       | -          | 46.5       | 1”””    | 6.28 d (8.0) | 95.7       | 104.9 |
| 18  | 3.16 br d (10.0) | 41.7 | 3.23 dd (4.0, 13.5) | 41.8 | 2”””    | 4.16       | 74.1       | 76.5 |
| 19  | 1.22, 1.74 | 46.3       | 1.21, 1.74 | 46.3       | 3”””    | 4.00       | 79.3       | 77.6 |
| 20  | -          | 30.7       | -          | 30.8       | 4”””    | 4.33 t (8.5) | 71.1       | 71.6 |
| 21  | 1.03, 1.32 | 34.1       | 1.04, 1.28 | 34.1       | 5”””    | 4.26 t (9.0) | 78.8       | 78.1 |
| 22  | 1.71, 1.81 | 32.7       | 1.76, 2.01 | 33.0       | 6”””    | 4.43       | 4.45 dd (3.0, 11.5) | 4.34 dd (5.5, 11.5) | 62.6 |
| 23  | 1.25 s     | 28.1       | 1.16 s     | 27.9       |          |           |           |          |            |
| 24  | 0.94 s     | 16.9       | 0.99 s     | 16.5       |          |           |           |          |            |
| 25  | 0.80 s     | 15.5       | 0.75 s     | 15.3       |          |           |           |          |            |
| 26  | 1.06 s     | 17.4       | 0.92 s     | 17.2       |          |           |           |          |            |
| 27  | 1.24 s     | 26.1       | 1.25 s     | 26.0       |          |           |           |          |            |
| 28  | -          | 176.5      | -          | *         |          |           |           |          |            |
| 29  | 0.89 s     | 33.1       | 0.91 s     | 33.1       |          |           |           |          |            |
| 30  | 0.86 s     | 23.6       | 0.96 s     | 23.6       |          |           |           |          |            |

*not determined
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