Triterpenoid Saponins From Sesbania vesicaria (Abstract)

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Triterpenoid Saponins From *Sesbania vesicaria*

Abstract

Nine oleanane saponins including three new and six known were isolated from the seeds of *Sesbania vesicaria*. The new saponins were established as 3-O-[α-L-rhamnopyranosyl-(1 → 3)]-β-D-glucuronopyranosyl-3β,29-dihydroxy-olean-12-en-28-oic acid, 3-O-α-L-rhamnopyranosyl-28-O-β-D-glucopyranosyl-3β-hydroxy-olean-12-en-23-al-28-oate, and 3-O-α-L-rhamnopyranosyl-28-O-β-D-glucopyranosyl-3β,23-dihydroxy-olean-12-en-28-oate. All isolated saponins were assayed for their DNA topoisomerase I inhibition ability and cytotoxicity against A549 human lung adenocarcinoma epithelial cells with no positive activity detected (IC$_{50}$ $>$ 312 µM and GI$_{50}$ $>$ 25 µM, respectively).