

Accepted Manuscript

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PII: S0008-6215(17)30462-7

DOI: [10.1016/j.carres.2017.08.010](https://doi.org/10.1016/j.carres.2017.08.010)

Reference: CAR 7435

To appear in: *Carbohydrate Research*

Received Date: 3 July 2017

Revised Date: 21 August 2017

Accepted Date: 21 August 2017

Please cite this article as: J.-J. Sui, W.-H. Zhou, D.-Y. Liu, M.-Q. Li, J.-S. Sun, Highly efficient synthesis of bioactive oleanane-type saponins, *Carbohydrate Research* (2017), doi: 10.1016/j.carres.2017.08.010.

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Highly Efficient Synthesis of Bioactive Oleanane-type Saponins

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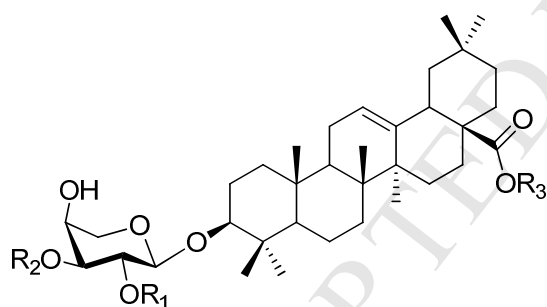
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Table of content:



1 $R_1 = R_2 = R_3 = H$

2 (Guaianin N) $R_2 = \beta\text{-D-Glcp}$, $R_1 = R_3 = H$

3 (Elatoside E) $R_1 = \beta\text{-D-Xylp}$, $R_2 = \beta\text{-D-Glcp}$, $R_3 = H$

4 (Elatoside F) $R_1 = \beta\text{-D-Xylp}$, $R_2 = \beta\text{-D-Glcp}$, $R_3 = \beta\text{-D-Glcp}$

Abstract:

Leveraging on Schmidt glycosylation method, a highly efficient approach to obtain oleanane-type triterpene saponins was fixed, whereby oleanyl mono-, disaccharide (guaianin N), trisaccharide (elatoside E), as well as tetrasaccharide (elatoside F) were obtained efficiently. The synthetic investigation has resulted in the discovery of the

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