



# Calotroposides H-L, new cytotoxic oxypregnane oligoglycosides from the root bark of *Calotropis procera*.

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## Abstract:

As a part of our continuing interest in identifying anticancer drug leads from natural sources, we have investigated the n-BuOH fraction of the root bark of *Calotropis procera* (Ait) R. Br. Seven new oxypregnane oligoglycosides: calotroposides H-N (1-7) were isolated and identified. Their structures were established on the basis of 1D and 2D NMR studies, HRMS, and GCMS spectral data. The in vitro growth inhibitory activity of the n-BuOH fraction and compounds 1-7 was evaluated against A549 non-small cell lung cancer (NSCLC), U373 glioblastoma (GBM), and PC-3 prostate cancer cell lines. Compounds 4 and 6 showed subnanomolar growth inhibition activity with IC<sub>50</sub> ranging from 0.5 to 0.7 μM against U373 glioblastoma (GBM) and PC-3 prostate cancer cell lines. These results provide further insight into the chemical diversity and biological activities of this class of compounds.

## Keywords:

Asclepiadaceae *Calotropis procera* Oxypregnane Calotroposides H-N Cancer growth inhibitory activity

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