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Cytotoxic and antiproliferative evaluations of a novel diterpenoid from Euphorbia graminea

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 $\bf B$ ioassay guided fractionation of the methanol extract of *Euphorbia graminea* against breast cancer (MCF-7), lung cancer (NCI-H460) and NIH 3T3 (mouse embryonic fibroblast normal cell line) at 1-250 μg/mL was carried out. Extracts of *E. graminea* was partitioned into aqueous and chloroform fractions and both fractions were tested for their effects on MCF-7 and NCI-H460. Further chromatographic and biological studies of the active chloroform fraction yielded a compound whose identity was revealed as Abietane-11, 23 diene-16-oic-14-ones through NMR and MS studies. This compound was observed to give -3.3 ± 1.4 and $5.30\pm3.75\%$ cytotoxicity against MCF-7 and NCI-H460 at $100~\mu M$ with GI_{50} and TGI of $+38\pm0.74$, $96.94\pm6.95~\mu M$ and 53.70 ± 9.30 and $93.88\pm11.70~\mu M$ respectively. The result has established the rationale for the use in ethnomedicinal practice.

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