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Sulfamic and succinic acid derivatives of 25-OH-PPD and their activities to MCF-7, A-549, HCT-116, and BGC-823 cell lines

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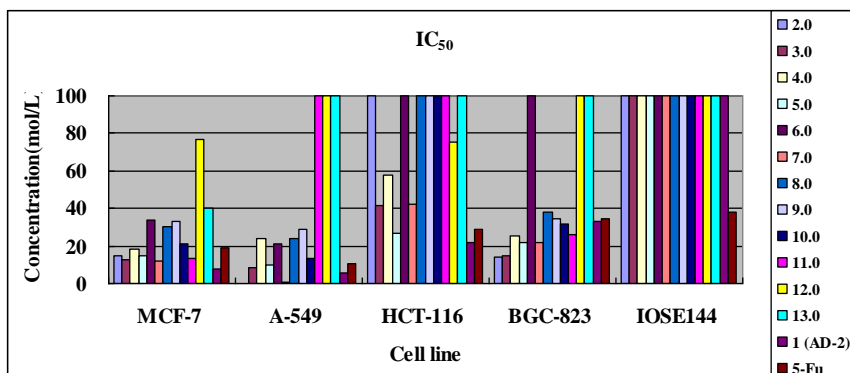
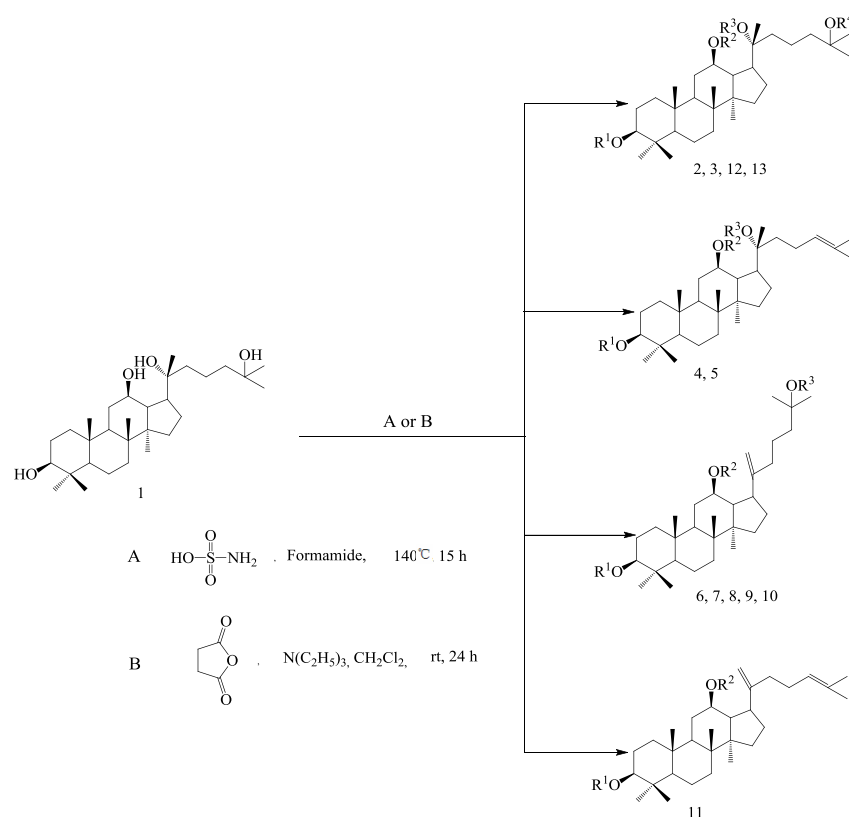
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## Graphical Abstract

Twelve novel 25-OH-PPD derivatives were synthesized, and their in vitro anti-tumor activities were tested by standard MTT assay via MCF-7, A-549, HCT-116, and BGC-823 cell lines. Results suggest that most of the sulfamic acid derivatives of 25-OH-PPD were favorable for anti-tumor activity compared with 25-OH-PPD. The most promising compounds in this series of synthetic compounds were 2, 3, and 7, which showed good activities against A-549 and BGC-823 cell lines and were to act as good anticancer agents with high efficiency and low toxicity. In particular, compound 2 exhibited the strongest growth inhibition activity in in vitro assays and may be used as a new anti-tumor candidate agent.



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