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Synthesis and biological evaluation of betulonic acid derivatives as antitumor agents

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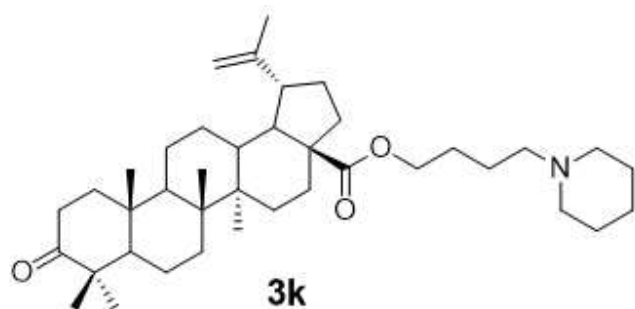
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## Graphical Abstract

Twenty-five betulonic acid derivatives were designed and synthesized and found to possess good antiproliferative activities against five cell lines, among which compound **3k** was found to induce cell apoptosis on MGC-803 cells through the mitochondrial intrinsic pathway.



IC<sub>50</sub> = 3.6  $\mu$ M MGC-803  
5.6  $\mu$ M PC3  
4.2  $\mu$ M Bcap-37  
7.8  $\mu$ M A375  
5.2  $\mu$ M MCF-7

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