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Synthesis of C₃-Neoglycosides of digoxigenin and their anticancer activities

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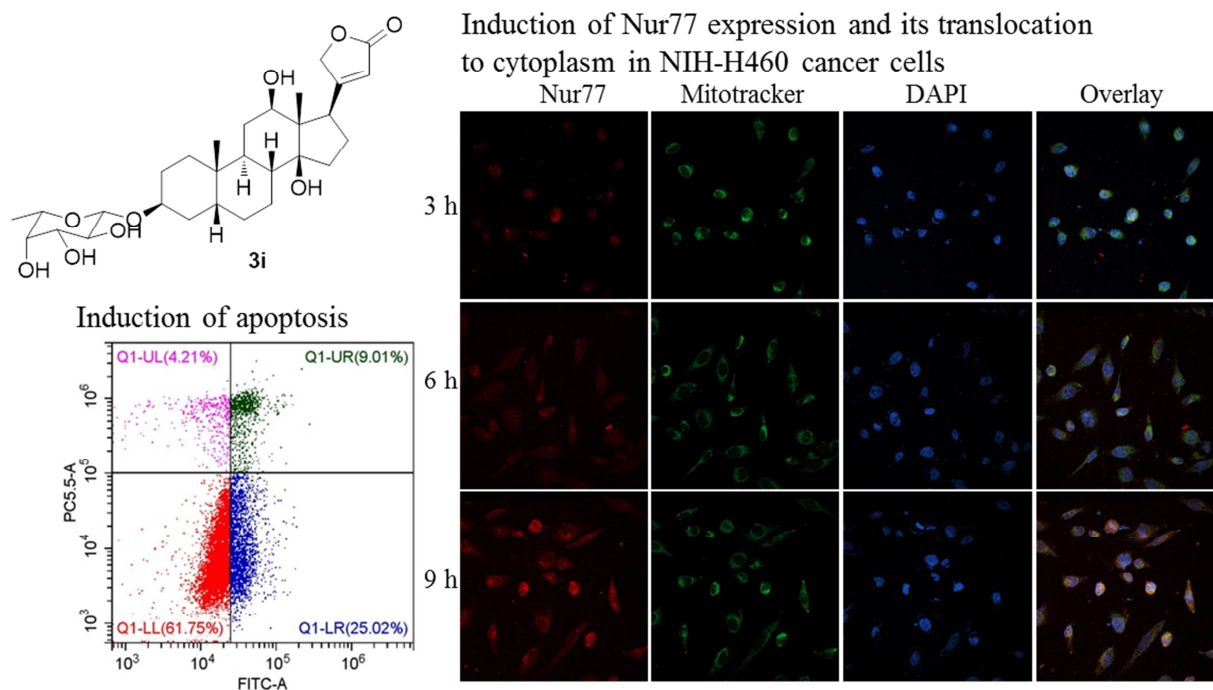
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A series of C₃-*O*-neoglycosides and C₃-MeON-neoglycosides of digoxigenin were synthesized. The SAR analysis revealed that C₃-*O*-neoglycosides of digoxigenin exhibited stronger cytotoxicity and induction of Nur77 expression of tumor cells than C₃-MeON-neoglycosides. Among them, 3 β -*O*-(β -L-fucopyranosyl)-digoxigenin (**3i**) showed the highest activity on induction of Nur77 expression and translocation from the nucleus to cytoplasm, leading to cancer cell apoptosis.



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