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Synthesis and Anti-HCV Activity Evaluation of New Anilinocoumarin Derivatives

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¹College of Pharmacy, Kaohsiung Medical University, Taiwan. ²College of Life Science, Kaohsiung Medical University, Taiwan Hepatitis C virus (HCV) infection is a main cause of chronic liver disease, leading to liver cirrhosis and hepatocellular carcinoma (HCC). The objective of our research was to develop effective agents against viral replication. Herein, we have synthesized a series of anilinocoumarin derivatives. Based on a cell-based HCV replicon system, we observed that 3-(3',4',5'-trimethoxyanilin-1'-yl)methylaminocoumarin (3) exhibited anti-HCV activity with a 50% effective concentration (EC₅₀) value of 7.2 μ M and a selective index (SI) value of 21. We concluded that the compound 3 possessed a potent activity against HCV replication and could provide as a new lead compound as anti-HCV inhibitors.

Biography

Prof. Shyh-Chyun Yang has completed his Ph.D at the age of 31 years from Kaohsiung Medical University. He has published more than 43 papers in reputed journals.