• 系統編號	RN9611-5399
• 計畫中文名稱	非固醇類抗發炎藥物之光化學研究及其與氨基酸之光鍵結合
• 計畫英文名稱	Photochemistry of NSAIDs and Their Photobinding to Amino Acids
• 主管機關	行政院國家科學委員會
• 計畫編號	NSC95-2320-B038-025
• 執行機構	台北醫學大學藥學系
• 本期期間	9508 ~ 9607
• 報告頁數	7 頁
• 使用語言	英文
• 研究人員	吳安邦 Wu, An-Bang
• 中文關鍵字	--
• 英文關鍵字	Flurbiprofen; HPLC; GC-MS; Photoproduct
• 中文摘要	查無中文摘要
• 英文摘要	A sample of 10 mM flurbiprofen in methanol (or ethanol) was photoirradiated with sixteen 8W low-pressure quartz mercury lamps irradiated at 306 nm in a Panchum PR-2000 photochemical reactor. In total, four major photoproducts derived from each sample were observed from the HPLC chromatogram. The photoproducts were separated and their structures elucidated by various spectroscopic methods. Alternatively, using GC-MS, 11 major photoproducts were observed. A reaction scheme of flurbiprofen in methanol is proposed the photochemical reaction routes occur mainly via esterification and decarboxylation, followed by oxidation with singlet oxygen to prod a ketone, alcohols and other derivatives.