

Physicochemical Properties of Lipophilic Drugs with fluorescent probe

나행요¹, 손정선^{1,2,†}

¹조선대학교; ²기초교육대학

(jss4347@chosun.ac.kr[†])

A study on water-soluble paclitaxel based on PEG conjugates(7-mPEG5,000-succinyloxymethyloxycarbonyl-paclitaxel) that improve the efficacy and the bioavailability, it is very effective to investigate the interaction between modified drugs and Serum Proteins. The fluorescent water-soluble paclitaxel was synthesized by a condensation reaction of pegylated paclitaxel with dansyl chloride, pyrene butyric acid etc. To gain a better understanding of the mechanism of drug action of paclitaxel as well as the environment of the paclitaxel-binding site, fluorescent 1-pyrenbutyrate will be incorporated in the carbon 2' of a paclitaxel prodrug (PP7). These synthesized compounds will be subsequently characterized by analytical-HPLC, FT-NMR, and laser-induced fluorescence spectrometry.