

P34

A Study on the Synthesis of Spiro- β -Lactams and Spiranic Oxazinones from Nortropinones

이현옥 · 임우진 · 정대일 · 이용균 · 최순규 · 박유미 · 한정태¹

동아대학교 화학과

¹영동대학교 화학과

β -lactams are known for both their significant biological activities and antibiotics. And also tropane alkaloids have received a good deal of attention because of their remarkable pharmaceutical signification. As a part of our study on the improvment of antimicrobial activity, herein we report the synthesis of a new class of spiro- β -lactams with β -lactam nuclear and tropane ring. N-substituted nortropinones were synthesized by the reaction of corresponding amines and 2,5-dimethoxytetrahydro-furan with acetonedicarboxylic acid. Imines were obtained by the reactions of N-substituted nortropinones and aniline derivatives (Staudinger reaction). Ultimately, spiro- β -lactams were synthesised by the treatment of phenoxyacetyl chlolide and triethyl amine.