

Loxoprofen Sodium의 근육투여시 소염, 진통 및 해열작용

현진이[○], 이대위, 김은영, 이은방¹, 정춘식²
 서울대학교 천연물과학연구소¹, 덕성여자대학교 약학대학²

The Anti-inflammatory, Analgesic and Antipyretic Actions of Loxoprofen Sodium
 in Intramuscular Administration in Rats and Mice

Jin Ee Hyun, Da Wei Li, Eun Young Kim, Eun Bang Lee^{1○}, Choon Sik Jeong²

Natural Products Research Institute, Seoul National University
 College of Pharmacy, Duksung Women's University

Loxoprofen sodium is an orally used anti-inflammatory, analgesic and antipyretic agent. For alleviation or inhibition of the pain symptoms regardless of referred or superficial pain, the prompt absorption of a drug and its immediate bioavailability might be generally required for a formulation or development of a new drug.

Therefore, in intramuscular administration, its anti-inflammatory, analgesic, and antipyretic effects were evaluated compared with an oral administration in animals. The occurrence of gastric damages which is common in nonsteroidal anti-inflammatory drugs was also observed.

The results are as following; loxoprofen sodium significantly inhibited carrageenan-induced paw edema, vascular permeability and adjuvant induced arthritis in i.m. injection compared with p.o. administration, and showed stronger effectiveness on acetic acid-induced writhing syndrome and in Randal-Selitto assay. Furthermore, its irritation effect on rat stomach in i.m. administration was 1.2 times less than in p.o. administration.