

[P-38]**Single and Four-week Repeated Oral Dose Toxicity Studies of CONP01, in Rats**

Kwang-Ho Kim, Ki Hyun Gil, Jae-Min Kim, Myoung-Kyu Han, Jin-Sook Bae,
Nam-Du Kim, Gi-Ho Seo, Mi-Sun Park, Hu-Song Zhang and Jung-Suk Lee
Chemon Preclinical Research Center, Korea

This study was performed to evaluate single and repeated-dose toxicities of CONP01(fermentation product of hot-water extract of *Achyranthis Radix* etc.) in Sprague-Dawley rats. CONP01 was orally administered to rats at dose levels of 0 and 5,000 mg/kg/day for single-dose toxicity study, and at dose levels of 0, 125, 500 and 2,000 mg/kg/day for 4-week repeated-dose toxicity study, respectively. In the single dose study, there were no death, clinical signs and changes in body weight gain related to the treatment. At necropsy, it was revealed no evidence of toxicity related to CONP01. All rats survived throughout the study period. In the repeated-dose toxicity study, there were no dose related changes in mortality, clinical signs, body weight changes, food and water consumption, ophthalmoscopy, organ weights, urine analyses, hematological findings, and biochemical examination of all animals treated with CONP01. Gross and histopathological findings revealed no evidence of specific toxicity related to CONP01. These results suggest that the oral NOAEL(no observed adverse effect level) of CONP01 may be over 2,000 mg/kg and MLD(minimum lethal dose) may be over 5,000 mg/kg in rats.

Keyword : Single and repeated-dose toxicity, CONP01, Rat