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SINGLE OR FOUR-WEEK REPEATED INTRAVENOUS TOXICITY STUDIES OF A NEW CEPHALOSPORIN ANTIBIOTIC AGENT, IDC-7181 IN RATS

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This study was designed to evaluate an acute and subacute intravenous dose toxicity of a new cephalosporin antibiotic agent, IDC-7181 in 7-week-old Sprague-Dawley rats. IDC-7181 was intravenously injected to rats at dose levels of 0, 3.2, 16, 80, 400 and 2,000 mg/kg/day for single dose toxicity study and at dose levels of 0, 10, 50 and 250 mg/kg/day for 4 week-repeated dose toxicity study. All rats survived throughout the study periods. There were no dose-related changes in clinical signs, body weight changes, food and water consumption, opthalmoscopy, organ weights, urine analysis, biochemical examination, and hematological findings of all animals treated with IDC-7181. Gross and histopathological findings revealed no evidence of specific toxicity related to IDC-7181. On the basis of the results of this study, LD_{50} value of IDC-7181 was above 2,000 mg/kg and indicate that IDC-7181 may have no side effects and its intravenous maximum tolerated dose value may be over 250 mg/kg in rats.