

**Studies on Pharmacokinetics of a new NSAID SJ-151(I)**

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The objectives of this study were to evaluate the pharmacokinetics of SJ-151 which is a new NSAID in male Beagle dogs following a single oral dosing. Seven beagle dogs (10-12kg) were all administered a single oral gavage(10mg/kg) of SJ-151 tablet and serial blood samples of approximately 5ml were then drawn from the cephalic vein of each animal at 0(predose),0.25, 0.5, 1, 1.5, 2, 3, 4, 6, 8, 12 and 24hours postdosc.SJ-151(Cinmetacin · butendiol)and cimeticin were quantified in the plasma fraction by HPLC assay.The pharmacokinetic parameters calculated from the plasma concentrations of SJ-151 in day1 are  $C_{max}(ng/ml)509 \pm 248$ ,  $T_{max}(hr) 1.50 \pm 0.45$ ,  $AUC(ng.hr/ml) 1,750 \pm 762$ ,  $t_{1/2\alpha} 0.98 \pm 0.30$ ,  $t_{1/2\beta} 12.0 \pm 6.75$ . The pharmacokinetic parameters calculated from the plasma concentrations of Cinmetacin in day 1 are  $C_{max}(ng/ml)258 \pm 74.1$ ,  $T_{max}(hr)2.42 \pm 0.92$ ,  $AUC(ng.hr/ml) 1,820 \pm 318$ ,  $t_{1/2\alpha} 1.74 \pm 0.49$ ,  $t_{1/2\beta} 25.4 \pm 13.4$ .