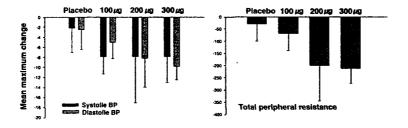
## Pharmacokinetic and Pharmacodynamic Evaluation of a Novel K<sup>+</sup> Channel Activator, SKP-450, in Healthy Volunteers

JH Sohn', MD, KS Yu, MD, KS Bae, MD, JY Cho, PhD, KJ Kang², RN, JH Lee², MT, IJ Jang, MD, PhD, SG Shin, MD, PhD

Dept. of Pharmacol, and Clin. Pharmacol. Unit, Seoul Nat 1 Univ. College of Med. and Hospital. Inje Univ.; Pusan. Clinical Trial Center; Clinical Research Institute, Seoul Nat 1 Univ. Hospital

To evaluate the pharmacokinetic and pharmacodynamic characteristics of a novel K\* channel activator SKP-450, a single-blind, randomized, placebo-controlled, parallel group study was conducted in 28 healthy volunteers. The volunteers were randomly allocated to single dose groups of  $100\mu g$ ,  $200\mu g$ , or  $300\mu g$ . The 200  $\mu g$  group was further studied for food interaction in a crossover fashion. Drug concentrations in plasma were measured by HPLC. PD effects were evaluated by serial measurements of blood pressure (BP), pulse rate, hemodynamic parameters (cardiac index & total peripheral resistance: TPR using computerized impedance cardiography), and also by measuring plasma renin activity and aldosterone concentrations.

Dose	Tmax(hr)	Cmax(ng/ml) 2.78	t <sub>1/2</sub> (hr)	AUC(ng · hr/ml) CL/F(L/hr)	
				12.34	10.67
200μg	1.17	4.68	2.27	19.92	10.75
200μg(food)	3.01	3.85	2.87	23.03	9.03
$300 \mu \mathrm{g}$	1.00	6.57	2.18	35.96	9.66



SKP-450 was generally well tolerated, showed linear PK properties, and was expected to show significant reduction in BP & TPR.