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| Author | 川島, 紘一郎(Kawashima, Koichiro) 戸田, 浜朗(Toda, Hamao) 大畑, 尚代(Ohata, Hisayo) 藤本, 和子(Fujimoto, Kazuko) 鈴木, 岳之(Suzuki, Takeshi) 稲垣, 治(Inagaki, Osamu) |
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Antihypertensive and Diuretic Effects of YM-09730-5, a new Calcium Antagonist, in Stroke-Prone Spontaneously Hypertensive Rats*

Koichiro KAWASHIMA, Hamao TODA, Hisayo OOHATA, Kazuko FUJIMOTO,
Takeshi SUZUKI and Osamu INAGAKI**

川島紘一郎, 戸田浜朗, 大畑尚代, 藤本和子, 鈴木岳之, 稲垣 治**,

1. Effects of consecutive administration of YM-09730-5, (3S)-1-benzyl-3-pyrrolidinyl-methyl (4S)-2,6-dimethyl-4-(*m*-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate hydrochloride, a new calcium antagonist, for 9 wk on blood pressure and urinary excretion of electrolytes were studied in stroke-prone spontaneously hypertensive (SHRSP) rats.
2. YM-09730-5 (1 and 3 mg/kg per day, p.o.) prevented development of hypertension and produced a significant reduction in blood pressure from the first week of the experiment. Nicardipine (15 mg/kg per day, p.o.) produced almost the same degree of antihypertensive effect as YM-09730-5 at a dose of 3 mg/kg.
3. YM-09730-5 produced significant diuresis and increased urinary excretion of electrolytes throughout the experiment.
4. Chronic administration of YM-09730-5 (3 mg/kg) reduced the severity of glomerular lesions in the kidney and vasculitis in the mesenteric artery.
5. These results demonstrate that YM-09730-5 is a potential antihypertensive drug with a potency about 5 times higher than that of nicardipine.

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