P 28

Effects of methysergide and ketanserin on the antidiuretic action induced by serotonin (5-HT) administered into vein in dog

Suk-Tai Ko °, Han-Kwang Na

° Dept. of Pharmacology, College of Pharmacy, Chosun University.
Dept. of Pharmacology, National Institute of Toxicological Research

This study was examined on the effects of methysergide, a 5-HT_1 receptor antagonist, and ketanserin, a 5-HT_2 receptor antagonist, for investigation on mechanism of antidiuretic action induced by serotonin (5-HT) given intravenously in dog. Antidiuretic action of 5-HT given intravenously was inhibited by methysergide administered into vein or carotid artery, but not affected by methysergide given into a renal artery and ketanserin administered into vein, a renal artery or carotid artery. These results suggest that the antidiuretic action exhibited by serotonin (5-HT) given intravenously is mediated through activation of central 5-HT_2 receptor in dog.