พิมพ์ต้นฉบับบทคัดย่อวิทยานิพนธ์ภายในกรอบสีเขียวนี้เพียงแผ่นเดียว

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KEY WORD CLITORIA MACROPHYLLA / 6-DEOXYCLITCRIACETAL / RAT UTERUS / RAT AORTA / GUINEA-PIG

KARAKED SAIBUNDASAK: (EFFECT OF 6-DEOXYCLITORIACETAL FROM CUTORIA MACROPHYLLA WALL, ROOTS ON SMOOTH MUSCLE PREPARATIONS) THESIS ADVISOR: ASSO. PROF. CHANDHANEE TTHIPANICHPONG, THESIS CO-ADVISOR: ASSO. PROF. NIJSIRI RUANGRUNGSI. 119 pp. ISBN 974-637-235-1.

6-deoxyclitoriacetal is one of the rotenoid compound isolated from the roots of Clitoria macrophylla Wall. The pharmacological effect of this compound was investigated on various isplated smooth muscle preparations. It was found that 6-deoxyclitoriacetal 0.2 mg/ml significantly decreased spontaneous contraction of isolated rat uterus as well as the contraction induced by acetylcholine(ACh) $5\times10^{-6}\,\mathrm{M}$, oxytocin $5\times10^{-3}\,\mathrm{IU/ml}$. 6-deoxyclitoriacetal 0.4 mg/ml caused significant reduction in isolated rat aortic contraction produced by cumulative dose of serotonin $(5-\mathrm{HT})$ 1×10^{-8} – $1\times10^{-4}\,\mathrm{M}$ and norepinephrine (NE) 1×10^{-11} – $1\times10^{-7}\,\mathrm{M}$ It also inhibited the contraction caused by calcium chloride in cumulative doses $(0.1-30\mathrm{mM})$. In guinea-pig ileum, 6-deoxyclitoriacetal 0.15 mg/ml decreased the cumulative contractile response induced by acetylcholine (ACh) 1×10^{-9} – $1\times10^{-5}\,\mathrm{M}$, serotonin(5-HT) 1×10^{-9} – $1\times10^{-5}\,\mathrm{M}$ and histamine 1×10^{-9} – $1\times10^{-5}\,\mathrm{M}$. It was concluded that 6-deoxyclitoriacetal exerted the inhibitory effect on various smooth muscle contraction by nonspecific mechanism. It was likely to be due to the interference of intracellular calcium through both receptor operated Ca²⁺ channel and voltage-dependent Ca²⁺ channel

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