

Effect of 91041 on the myoelectric activity of the small intestine in rats

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Abstract

AIM: 91041 is a monomer extracted from 9104. It is unknown whether 91041 has effects on intestinal smooth muscles, we investigated effect of 91041 *i.v.* on intestinal myoelectricity in rats.

METHODS: Two couples of electrodes were implanted under serosal

of intestine. MMC was recorded before and after 91041 (10 mg/kg) *i.v.*

RESULTS: The amplitude of spike of duodenum and jejunum in rats was decreased by 50 percent to 90 percent after intravenous administration of 91041. The inhibitory duration ranged 0.6 to 68 min. Furthermore, it reduced the duration of resumed phase 3 ($P < 0.01$) than that of normal phase 3. These effects were not blocked by naloxone.

CONCLUSION: It suggested that 91041 may become a new inhibitor to small intestinal contraction.

Key words: 91041; MMC; Naloxone

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