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The role of Cortistatin-14 in the gastrointestinal motility

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Author Contribution to Study

JinHong Jiang performed most experiments, analysed data and wrote the manuscript. WeiDong Jin carried out some animal experiments in vivo and some experiments in vitro. YaLi Peng and XueYa Liang carried out some animal experiments about dextran sulfate sodium-induced murine colitis model and mouse model of castor oil-induced diarrhea in vivo. Shu Li and LiJuan Wei synthesized peptide drugs. ZhiPing Lei performed quantitative real-time PCR. LongFei Li provided experimental tools and critically revised the manuscript. Min Chang designed the experiments, analyzed data, supervised the study and wrote the manuscript.

The role of Cortistatin-14 in the gastrointestinal motility in mice

Highlights

- CST-14 mRNA level is decreased and gastrointestinal transit is inhibited in colitis mice.
- CST-14 markedly delayed the emergence of liquid feces in castor oil-induced diarrhea.
- CST-14 (5 mg/kg; *ip*) significantly inhibited bead expulsion and fecal pellet output.

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