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# Anti-diarrheal and spasmolytic activities and acute toxicity study of Soonkijangquebo, a herbal anti-diarrheal formula

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## Abstract

The anti-diarrheal and spasmolytic activities of Soonkijangquebo (SKJQB), a Korean herbal anti-diarrheal formulation, were subjected to pharmacological evaluation. SKJQB, at a dose of 50–200 mg/kg, inhibited castor oil-induced diarrhea in mice. The median effective dose (ED<sub>50</sub>) for the anti-diarrheal effect was 93 mg/kg. In isolated rabbit jejunum preparations, SKJQB produced a spasmolytic effect by the relaxation of spontaneous contractions in a dose-dependent manner. The median effective concentration (EC<sub>50</sub>) for the spasmolytic effect was 3.6 mg/ml. In isolated guinea pig ileum preparations, SKJQB also produced a spasmolytic effect by reduction of acetylcholine-induced contractions. When tested against calcium channel blockade in rabbit jejunum, SKJQB caused a dose-dependent rightward shift in the Ca<sup>2+</sup> dose-response curves, similar to that produced by verapamil, a well-known calcium

antagonist. In an acute toxicity study in Spragueâ€“Dawley rats, the median lethal dose (LD<sub>50</sub>) of SKJQB was greater than 2000Â mg/kg, and no pathological changes were noticed in macroscopic examination by necropsy of rats treated with SKJQB. Thus, SKJQB may be safely used as a spasmolytic as well as an anti-diarrheal agent.



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## Keywords

Soonkijangquebo; Anti-diarrhea; Spasmolytic; Calcium antagonist

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