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Antinociceptive effect of Rosa damascena in mice

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View references (٢٢)

Abstract

In this study, analgesic effects of the aqueous, ethanolic and chloroformic extracts of this plant were investigated. Mice were treated with IP injection of ١٠٠, ٥٠٠ and ١٠٠٠ mg $kg^{-١}$ aqueous, ethanolic and chloroformic extracts of the plant and analgesic effects were assessed using hot plate and tail flick methods. The results showed that ethanolic extract had significant analgesic effect comparable to morphine. As, pretreatment of animals with naloxone significantly reduced analgesic effect of the extract, the analgesic effect of ethanolic extract seems to be at least, in part through opioid system. No analgesic effects have been observed with aqueous or chloroformic extracts of the plant. © ٢٠٠٨ Asian Network for Scientific Information.

Author keywords

Analgesic plant extract; Hot plate; Rosa damascena; Tail flick

Indexed Keywords

EMTREE drug terms: alcohol; analgesic agent; chloroform; morphine; naloxone; plant extract; Rosa damascena extract; unclassified drug; water

EMTREE medical terms: analgesic activity; animal experiment; animal model; antinociception; article; controlled study; drug dose comparison; hot plate test; male; mouse; nonhuman; pain; reaction time; rosa damascena; rose; tail flick test

Species Index: Animalia; Mus; Rosa x damascena

Chemicals and CAS Registry Numbers: alcohol, ٦٤-١٧-٥; chloroform, ٦٧-٦٦-٣; morphine, ٥٢-٢٦-٦, ٥٧-٢٧-٢; naloxone, ٣٥٧-٠٨-٤, ٤٦٥-٦٥-٦; water, ٧٧٣٢-١٨-٥

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