

علوم اعم علوم اعم e role of capsaicin receptor in locus coeruleus on morphine-induced analgesia in normal rphine non-dependent rats am naderi <u>farjam1</u> , Abdolrahman Sarihi2, Masoomeh Taheri1, Talieh Shirafkan1 lireza Komaki2 Department of biology, Faculty of Basic Sciences- Islamic Azad University, Hamadan Branch, madan, Iran Neurophysiology Research Center, Hamadan University of Medical Sciences, Hamadan, Iran dery.azam@yahoo.com roduction:. Morphine inhibits activity of locus coeruleus (LC) nucleus neurons which are olved in pain modulation.Vanilloid type 1 receptors activation (TRPV1) by using different doses capsaicin can affect time and duration of analgesia. Capsaicin (Cap) receptor (TRPV1) pressed in several brain nuclei involved in pain perception including LC nucleus. This study was
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the to examine the role of TRPV1 in LC on morphine-induced analgesia in normal morphine n-dependent rats. thods: This study was performed on male Wistar rats. Morphine sulfate was injected aperitonealy (10 mg/kg) once a day .Using tail flick, Von Frey and hot plate tests we estigated the role of TRPV1 receptors (Cap 10 nmol) into LC in morphine analgesia in normal s. sults: Our results indicated that activation of TRPV1 receptors in LC, has no effects on rphine analgesia in normal morphine non-dependent rats ingection. nclusion: The results of present study can be used in pharmacological therapy by activation of psaicinioid system in patients.
ywords: Pain, Capsaicin, Morphine, locus coeruleus, Tail flick
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