

The Study of the Effect of Histidine Derivatives as a Novel Antinociceptive and Anti-Inflammatory Activity

Abstract

This study explains the biochemical activity of histidine derivatives. The compounds were identified by CHN analysis, FT-IR and ¹H NMR. The results certified that the chemical structures of the prepared compounds. The anti-inflammatory and antinociceptive activity was studied by two different tests; the hot plate test and writhing test for analgesic activity and two tests for anti-inflammatory activity they are formalin induced inflammation test and carrageen an induced inflammation test. The histidine derivatives were found to have potent activity as anti-inflammatory and antinociceptive. The active compounds were tested to acute toxicity. It was found that they are safety to the dose 5 g/kg orally in mice without any mortality