

Synthesis and Assessment of Anti-inflammatory Activity of a Chlorosubstituted Chalcone Derivatives and using the Semi-empirical Methods to Measure the Linked Physicochemical Parameters

Abstract

The present research was planned to synthesize chlorinated chalcone derivatives by condensing acetophenone with chlorinated benzaldehyde in presence of sodium hydroxide. The anti-inflammatory activity was evaluated practically by measuring cotton bellets induced granuloma. Theoretical evaluation was made by using HyperChem software. Chlorinated chalcone derivatives (CHD) showed comparable anti-inflammatory effect to diclofenac sodium, and less than dexamethsone.