International Journal of Engineering Technology Science and Research
IJETSR
www.ijetsr.com
ISSN 2394 – 3386
Volume 4, Issue 10
October 2017

Novel Chalcones as Potent Anti-Inflammatory Drugs

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Chalcones are important key intermediates for synthesizing heterocyclic compounds like pyrazolines, isoxazolines, pyridine, pyrimidines etc. Chalcones exhibit several biological effects such as anti-inflammatory, anti-hepatotoxic and anti-ulcer actions. They also inhibit enzymes such as aldose reductase and xanthine oxidase. They are potent antioxidants and have free radical scavenging abilities. In the present paper different chalcones were synthesized by condensing appropriate accetophenone with sodium hydroxide by Claisen Schimdt reaction. All the synthesized chalcones were then tested for the anti-inflammatory activity activity by using carageenan induced hind paw edema model in Wistar strain albino rats. The activity of all the synthesized chalcones showed moderate to strong and equal activity to that exhibited by standard drug Celecoxib at 3h and 5h.