**بحث هديل علي 2016**

**Synthesis and biological study of Naproxen derivatives**

**Abstract**

Non-steroidal anti-inflammatory drugs (NSAIDs) are a diverse group of drugs used mainly in treatment of acute and chronic pain .But these have many side effect on GI system ,dyspepsia and low bioavailability.GI side effect constitute the most frequent of all the adverse reactions of NSAIDs .Major side effect is that NSAIDs could block prostaglandin synthesis .Naproxen is one of the most important NSAID which is an orally administered which effect on a variety of inflammatory mediators .It is an effective analgesic and anti-inflammatory agent with a good tolerability profile . It is absorbed from the gastrointestinal tract ,but like other NSAIDs it has some side effects like it affect GI system ,dyspepsia and low bioavailability .These side effects can minimize by "Prodrug approach" and studies have been shown that derivitization of carboxylate moieties in NSAIDs and amidation result in the generation of potent COX-2 inhibitors .