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Synthesis, anti-inflammatory, analgesic, molecular modeling and admet studies of diclofenylalanylhydrazide

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The present work aims to synthesize novel diclofenac derivatives containing L-alanine moiety. The synthesized compounds docked into the active site to discover validated inhibitors of cyclooxygenases (COX-1 and COX-2). The calculations in-silico were predicted that, the compound with lowest energy of docked poses was interacted with residues of active site, perhaps could be making them possible selective inhibitors against (COX-2) and physiologically active. The binding score of compound compared with reference drug, and show extensive interactions with the targets, which may consider it a suitable selective inhibitor against (COX-2).

Keywords: ALANINE, DICLOFENAC, COX, DOCKING, ADMET.

Biography:

Magda Hassan Abd El lattif is an assistant professor of pharmaceutical organic chemistry in Pharmacy college, Head chairman of pharmaceutical chemistry department, Deanship of scientific research at Taif University, Kingdom of Saudi Arabia. She is also a Consultant of forensic chemistry, Medicolegal institute, Egypt and also is an Expert of Narcotics and Drugs, Tiaft, USA.