

Supporting Information

Chemical and drugs

Cyclooxygenase (COX-2) was acquired from human recombinant (Catalog No:C0858) and lipooxygenase (5-LOX) from Human Recombinant (Catalog No: 437996), Enzyme substrate including arachidonic acid (CAT No: 150384) and lineolic acid (CAS No: 60-33-3), Indicator and co-factor substances in this study like *N*, *N*′, *N*′-tetramethyl-p-phenylenediamine dihydrochloride (TMPD) CAS No: 637-01-4, glutathione (CAS No. 70-18-8) and hematin (CAS No. 15489-90-4), Carrageenan (CAS No. 9064-67-7), Nalaxon, Arachidonic acid (CAS No. 506-32-1), ABTS (CAS No. 30931-67-0, Sigma Aldrich USA), DPPH (CAS No. 1898-66-4, Sigma Aldrich Chemie GmbH USA), K₂S₂O₄ (Riedel-deHaen Germany), and gallic acid (CAS No. 149-91-7, GmbH USA). these all were purchased from Sigma Aldrich Germany. Buffer solution containing (KH₂PO₄ & K₂HPO₄), was of best quality with high purity. Celecoxib, Montelukast was purchased from Pfizer Pharmaceutical and Libra (Pvt.) limited. Tramadol, Diclofenac was purchased from Alliance Pharmaceutical Pakistan.

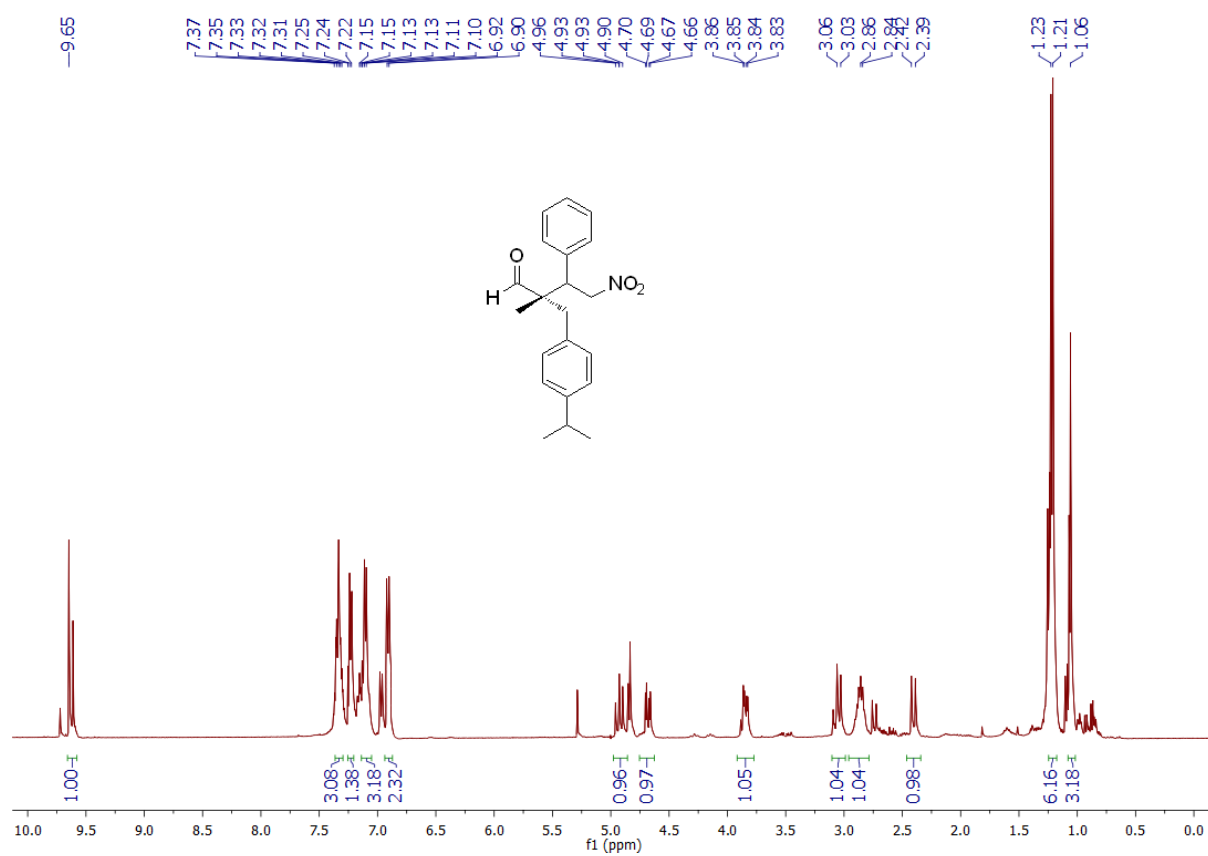


Figure S1. ¹H NMR spectrum of compound **FM1**.

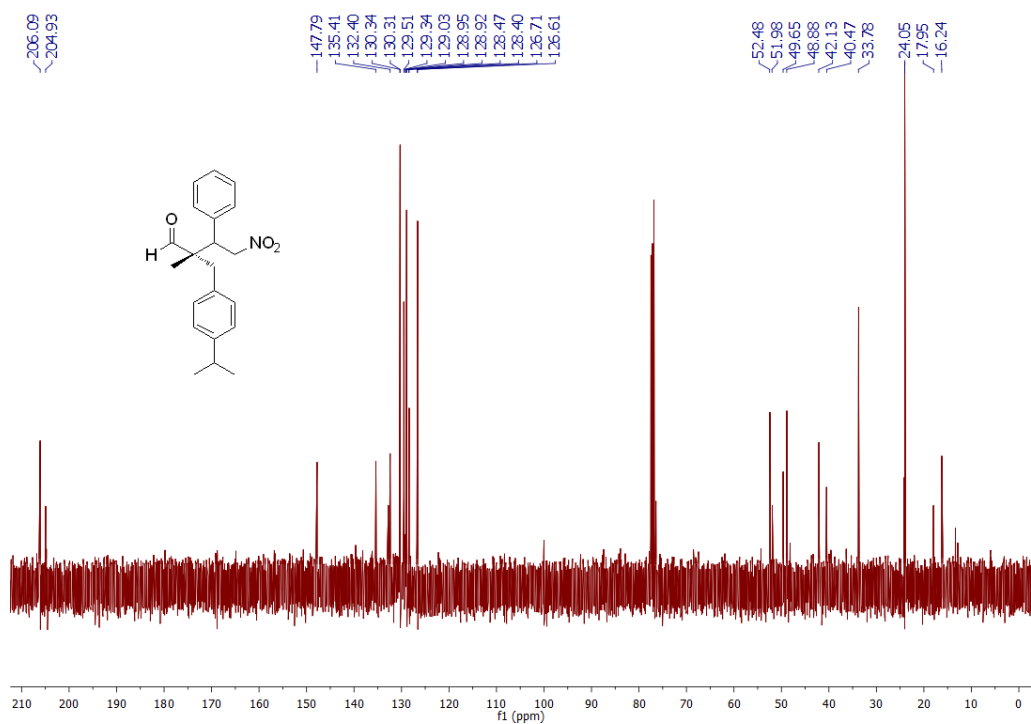


Figure S2. ¹³C NMR spectrum of compound **FM1**.

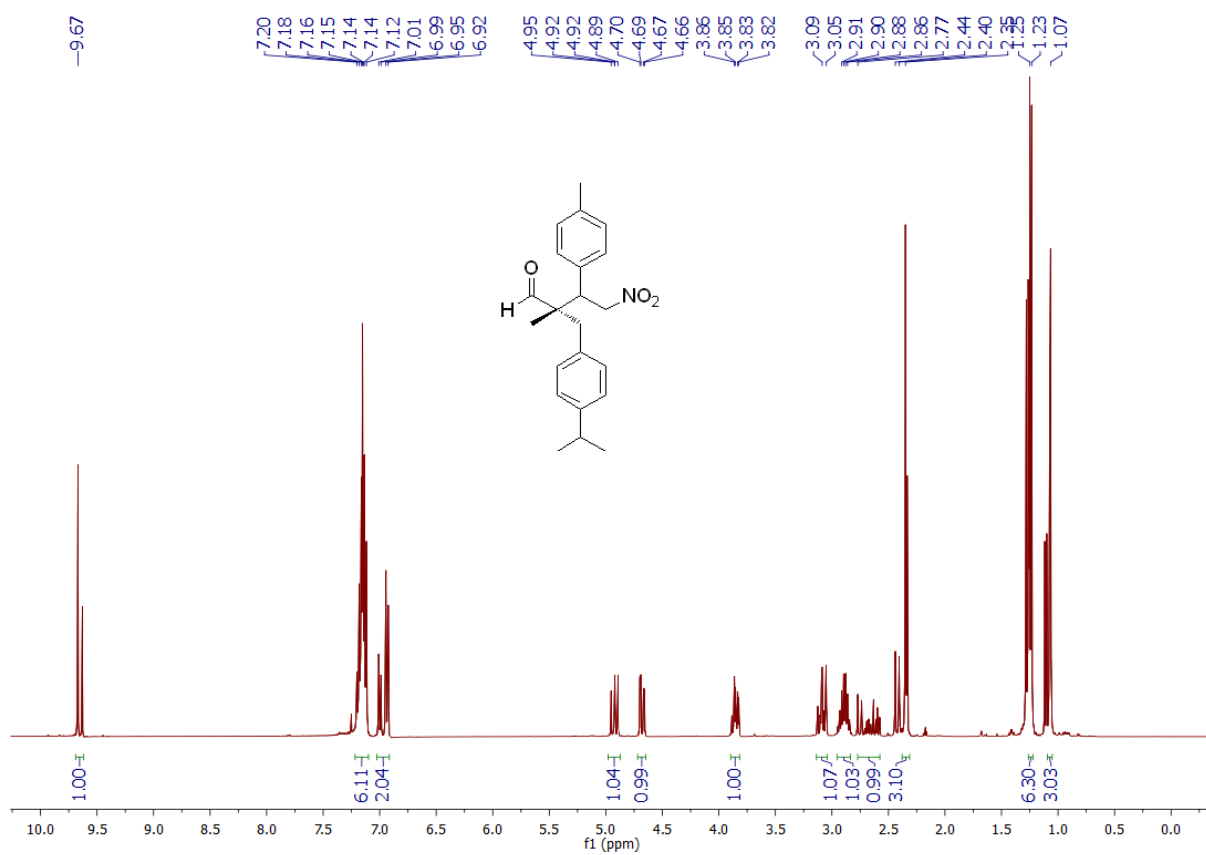


Figure S3. ¹H NMR spectrum of compound **FM3**.

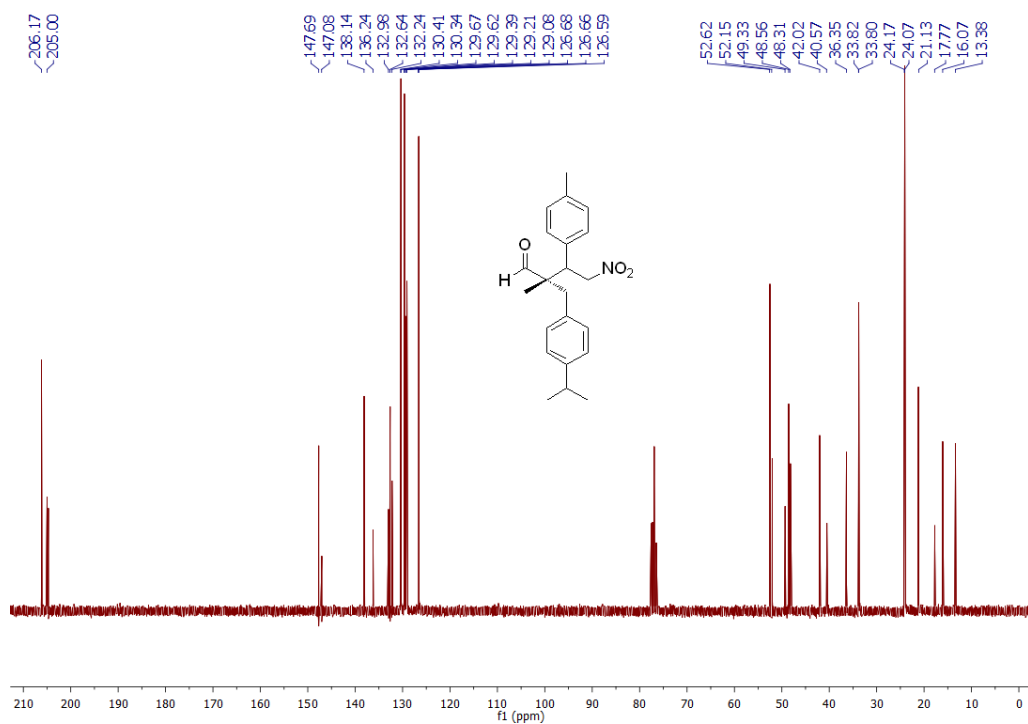


Figure S4. ¹³C NMR spectrum of compound **FM3**.

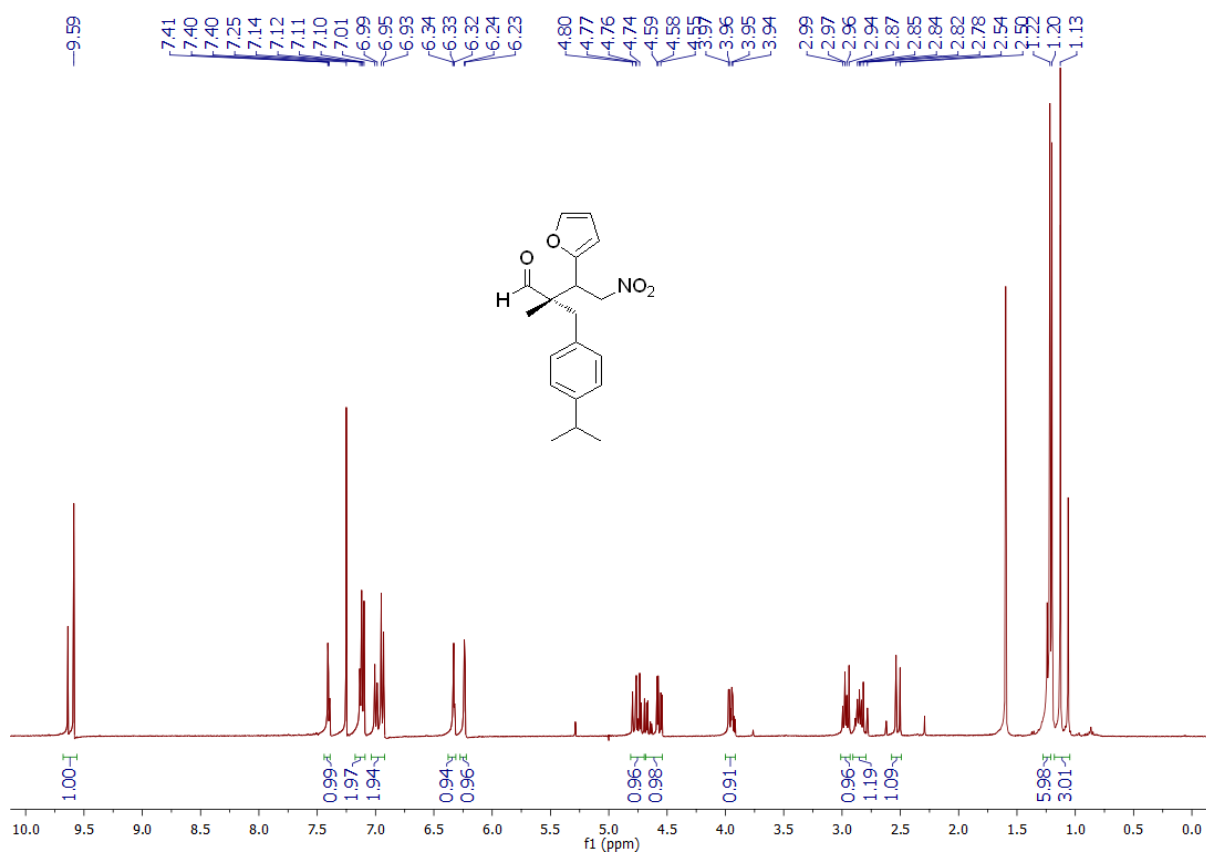


Figure S5. ¹H NMR spectrum of compound **FM6**.

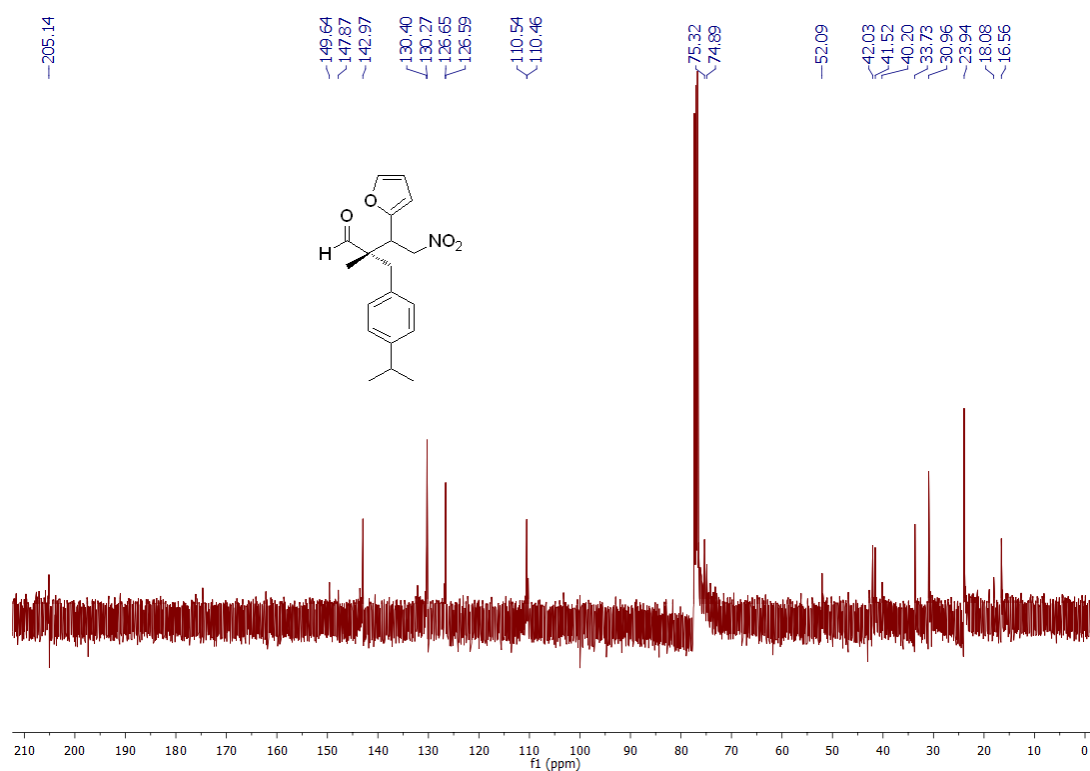


Figure S6. ¹³C NMR spectrum of compound FM6.

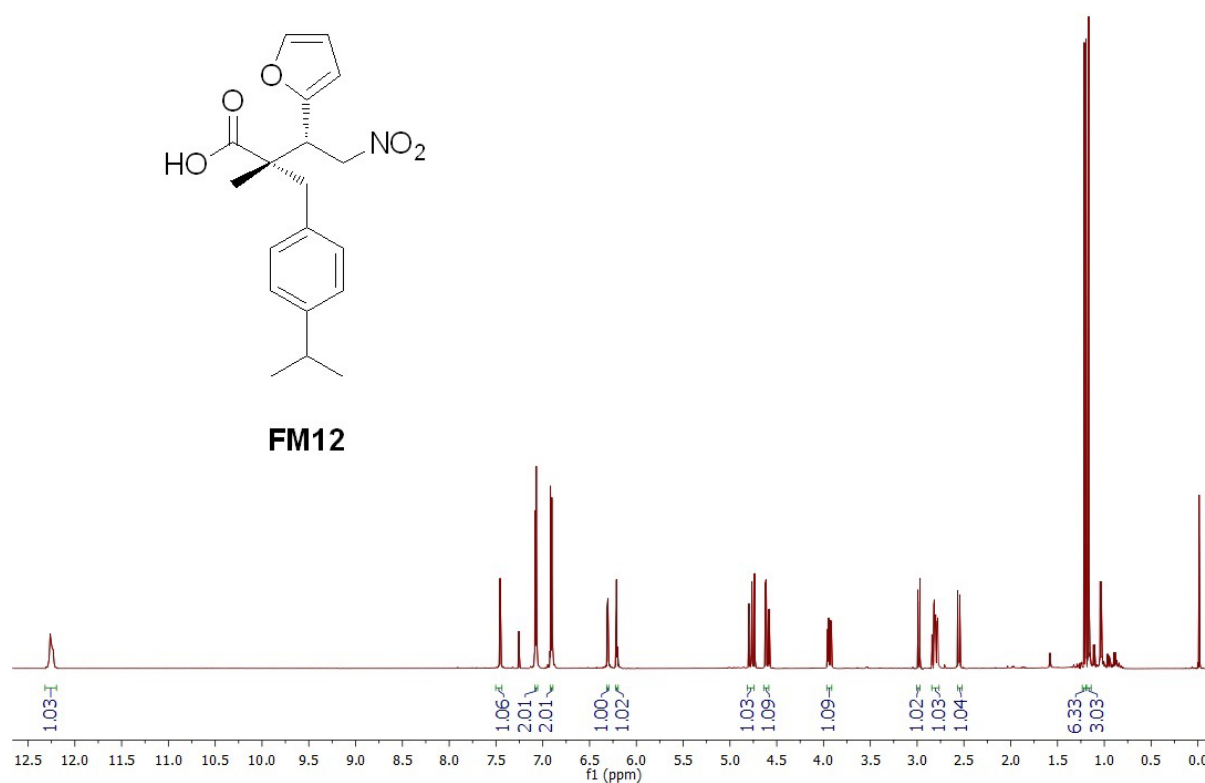


Figure S7. ¹H NMR spectrum of compound FM12.