General Remarks

Chemicals and reagents

Chemicals and reagents used in present work were obtained from S.D. Fine chemicals, Loba Chemie, Himedia and Merck.

Analytical measurements

- **Melting point**
  Melting points were determined by open end capillary method using scientific melting point apparatus. The data presented are uncorrected.

- **Thin layer chromatography**
  The completion of reaction was monitored using thin layer chromatography plates obtained from Merck ltd. (silica gel 60F_{254}) and the spots resolved were visualized using UV as well as iodine chamber.

Instrumentation

- **IR spectra (Sheth M. N. Science College, Patan)**
  The IR spectra of the synthesized derivatives were recorded on a Bruker alpha FT-IR spectrometer using ATR module. The values were recorded in cm\(^{-1}\).

- **\(^1\)H NMR spectra (SAIF, Chandigarh)**
  The \(^1\)H NMR spectral data were recorded on Bruker-400MHz NMR spectrometer using DMSO-d\(_6\) as a solvent. TMS was used as an internal reference.

- **Mass spectra (NFDD, Rajkot and O, health care, Ahmedabad)**
  The mass spectra were recorded with different mass spectrometers and also on LC-MS systems in some cases.
Biological activity

- The MIC was carried out using micro dilution/broth titer method and DMSO was used as a diluents.

Lipinski’s rule study

- This study was extensively carried out using Marvin Sketch software.

Drawing tools

- ChemBioDrawUltra 11.0 was used for drawing all the figures and chemical equations.

Reference work / citations

- Google Scholar was used for citing the references and APA style was adopted for citing.

Sci-finder

- All the designed and synthesized compounds were screened with Sci-finder and were found unreported.