GENERAL REMARKS

1. Melting points were recorded by open capillary method and are uncorrected.
2. Infrared spectra were recorded on Shimadzu FTIR-8400 (Diffuse reflectance attachment) using KBr. Spectra were calibrated against the polystyrene absorption at 1610 cm\(^{-1}\).
3. \(^1\)H & \(^{13}\)C NMR spectra were recorded on Bruker Avance II 400 spectrometer. Making a solution of samples in DMSO \(d_6\) and CDCl\(_3\) solvents using tetramethylsilane (TMS) as the internal standard unless otherwise mentioned, and are given in the \(\delta\) scale. The standard abbreviations s, d, t, q, m, dd, dt, br s refer to singlet, doublet, triplet, quartet, multiplet, doublet of a doublet, doublet of a triplet, AB quartet and broad singlet respectively.
4. Mass spectra were recorded on Shimadzu GC MS-QP 2010 spectrometer operating at 70 eV using direct injection probe technique.
5. Analytical thin layer chromatography (TLC) was performed on Merck precoated silica gel-G F\(_{254}\) aluminium plates. Visualization of the spots on TLC plates was achieved either by exposure to iodine vapor or UV light.
6. The chemicals used for the synthesis of intermediates and end products were purchased from Spectrochem, Sisco Research Laboratories (SRL), Thomas Baker, Sd fine chemicals, Loba chemie and SU-Lab.
7. All the reactions were carried out in Samsung MW83Y Microwave Oven which was locally modified for carrying out chemical reactions
8. All evaporation of solvents was carried out under reduced pressure on Heidolph LABOROTA-400-efficient.
9. % Yield reported are isolated yields of material judged homogeneous by TLC and before recrystallization.
10. The structures and names of all compounds given in the experimental section and in physical data table were generated using ChemBio Draw Ultra 10.0.
11. Elemental analysis was carried out on Vario EL Carlo Erba 1108.
## Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
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<tbody>
<tr>
<td>AcOH</td>
<td>Acetic Acid</td>
</tr>
<tr>
<td>AMOS</td>
<td>Aqua Mediated Organic Synthesis</td>
</tr>
<tr>
<td>AIDS</td>
<td>Acquired Immuno Deficiency Syndrome</td>
</tr>
<tr>
<td>Ar</td>
<td>Aromatic</td>
</tr>
<tr>
<td>ARC</td>
<td>Aids Related Complex</td>
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<tr>
<td>Av.</td>
<td>Average</td>
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<tr>
<td>Bmim</td>
<td>1-Butyl-3-methylimidazolium hexafluorophosphate</td>
</tr>
<tr>
<td>BP</td>
<td>Boiling Point</td>
</tr>
<tr>
<td>CoMSIA</td>
<td>Comparative Molecular Similarity Index Analysis</td>
</tr>
<tr>
<td>CoMFA</td>
<td>Comparative Molecular Field Analysis</td>
</tr>
<tr>
<td>cAMP</td>
<td>Cyclic Adenosine Mono Phosphate</td>
</tr>
<tr>
<td>CuCN</td>
<td>Copper Cyanide</td>
</tr>
<tr>
<td>CMV</td>
<td>Cyto Megalo Virus</td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
</tr>
<tr>
<td>CC₅₀</td>
<td>Cytotoxic Concentration</td>
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<tr>
<td>CCID₅₀</td>
<td>Cell Culture Infective Dose</td>
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<tr>
<td>Conc.</td>
<td>Concentrated</td>
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<tr>
<td>CPE</td>
<td>Cyto Pathogenic Effect</td>
</tr>
<tr>
<td>CRH</td>
<td>Corticotropic Releasing Hormone</td>
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<tr>
<td>3D-QSAR</td>
<td>N,N-dicyclohexyl carbodiimide</td>
</tr>
<tr>
<td>DCC</td>
<td>N,N'-Dicyclohexylcarbodiimide</td>
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<tr>
<td>DHP</td>
<td>Dihydropyridine</td>
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<tr>
<td>DMAP Catalyst</td>
<td>4-Dimethylaminopyridine</td>
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<tr>
<td>DMF</td>
<td>Di Methyl Formamide</td>
</tr>
<tr>
<td>DMSO</td>
<td>Dimethyl Sulfoxide</td>
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<td>D.M.</td>
<td>Demineralized Water</td>
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<tr>
<td>DNA</td>
<td>Deoxy Ribonucleic Acid</td>
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<tr>
<td>Equiv</td>
<td>Equivalent</td>
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<td>Experiment No</td>
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<tr>
<td>FSH</td>
<td>Follicle Stimulating Hormone</td>
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<tr>
<td>FT-IR</td>
<td>Fourier Transform Infrared</td>
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