



Maithili Life Sciences Private Limited

1st Floor, Plot # 146A, Phase – II, Road No: 16

IDA MALLAPUR, HYDERABAD – 500 076

Phone: 9140 65244531, Fax No. 9140 40062330, Mobile: 9849990346, Email: info@maithililifesciences.com, URL: <http://www.maithililifesciences.com>

Computer Aided Drug Design, Medicinal Chemistry, Process Research and Development

Maithili Life Sciences has excellent laboratory facilities for conducting drug research and development for global pharmaceutical and Biotech companies interested in outsourcing their R & D activities in India. The laboratory consists of Computational Chemistry tools, Medicinal Chemistry, process research and development and biological evaluation needs. The laboratory is located in IDA Mallapur at Hyderabad, India. The research projects will be under the supervision of the client's program coordinator and there will be a single point of contact for each project from Maithili Life Sciences. The data generated will be made available to client as per their protocol either as e-documents or paper.

Capabilities:

Maithili Life Sciences has good team of expertise in Computer Aided Drug Design and Medicinal Chemistry to speed up the drug discovery paradigm with lower cost and to save the time.

➤ Computer Aided Drug Design

- Ligand Docking
- 3D-QSAR
- Pharmacophore Modeling
- Structure Based Drug Design

➤ Medicinal Chemistry

- Analogues / Intermediate compounds synthesis.
- Building Blocks synthesis
- Custom synthesis
- Scaffold synthesis
- Reference compounds synthesis



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Process Research & Development

Our team is headed by 25 years experienced scientist in process development, scaling up and optimizing the processes and parameters from milligrams to kilogram laboratory scale.

The services offered includes:

- Process route selection and yield optimization
- Process development, optimization and validation
- Scale up of the process
- Provide quantities based on customer requirements
- Synthesis of API's and intermediates
- Synthesis of NCEs and their intermediates
- FTE collaboration research
- Provide technical document for the work carried out

Some of our reactions / synthesis capabilities will include:

1. HYDRO CYNATIONS
2. CHLOROMETHYLATIONS
3. REDUCTIVE AMINATIONS
4. SULFOXIDATIONS
5. PYRIDINE CHEMISTRY
 - ⌘ OXIDATIONS
 - ⌘ NITRATIONS
 - ⌘ HALOGENATIONS
 - ⌘ SUBSTITUTIONS



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REARRANGEMENTS

1. BENZIMIDAZOLE CHEMISTRY
2. GRIGNARD CHEMISTRY
3. METAL HYDRIDE REDUCTIONS
4. ACETYLENIC CHEMISTRY
5. FRIEDEL CRAFTS REACTIONS
6. HOFFMANN REACTIONS
7. FISHER'INDOLE SYNTHESIS
8. BORCHE – DRECHSEL CARBAZOLE CYCLISATIONS

OXIDATIONS

HYPOHALITE, PEROXIDE, CHROMIC ACID

1. CATALYTIC HYDROGENATIONS / DEHALOGENATIONS
2. PHOSPHOROUS REAGENTS USAGE
3. CO BASED