



美迪西生物医药



**Integrated Preclinical Drug
Discovery Services**

SHANGHAI MEDICILON INC.



Company Profile

Shanghai Medicilon Inc. is one of the top contract research organizations (CRO) in China. Since its establishment in 2004, Medicilon has been striving to offer fully integrated pharmaceutical services for the global scientific community. Our services span across chemistry, biology, formulation and preclinical studies. Therefore, we have the capability to help our clients to develop their researches and discovery programs from the stage of initial ideas to the Investigational New Drug (IND) filing phase.

Our headquarters is located in Zhangjiang High-Tech Park in Shanghai, China, with an additional facility in Chuansha Economic Park, Shanghai, China. We occupy over 300,000 sq. ft. in lab space and have over 800 employees cross biology, chemistry and preclinical research. Over 30% of our employees have M.S. and Ph. D. degrees.

Medicilon is one of the first CRO in China to provide integrated services, including compound synthesis, biological activity screening, structural biology, pharmacodynamics, pharmacokinetics, toxicology, and IND filing. Our high quality services are well-recognized internationally.

Medicilon is fully accredited by the International Laboratory Animal Assessment and Accreditation (AAALAC) and in compliance with the US Food and Drug Administration's (US FDA) Good Laboratory Practice (GLP). The standard of laboratories is certified by the China Food and Drug Administration (CFDA) for GLP compliance. Therefore, experimental reports generated at Medicilon can be used for China and USA dual filing to facilitate the evaluation of the safety and marketing of life-changing compounds for our clients.

SHANGHAI MEDICILON INC.

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Innovation Platform

- The GLP for Safety Evaluation Platform
- The Protein and Antibody Pharmacokinetic Platform
- The Animal Disease Models Platform
- The Isotopic Platform
- The Protein Crystallography Platform
- The New Drug Formulations and The Generic Drug Platform

Why Choose Medicilon?

- A CRO to Provide Full Set of Preclinical Research Which Comply with Both China and US GLP Standards
- A CRO to Provide Structural Biology and Chemical Biology Services
- A CRO to Provide "Foreign Pharmaceutical Company - CRO - Domestic Pharmaceutical Company" Three Parties Collaboration
- One of the Largest Preclinical Drug Safety Evaluation CRO in Shanghai

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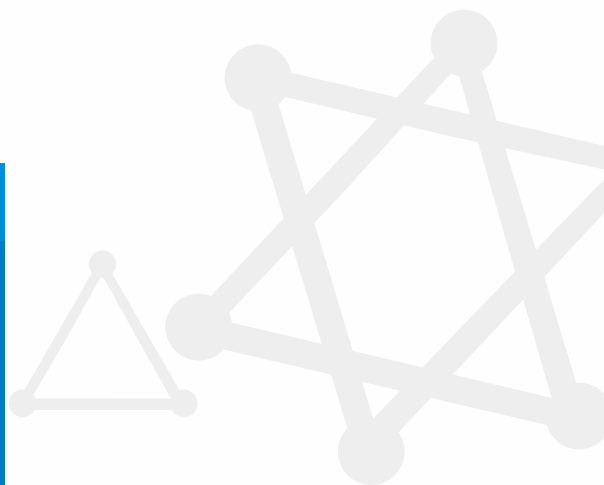


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CAPABILITIES



■ Integrated and Comprehensive Drug Research and Development Service Platform



■ Chemistry Services

Medicinal Chemistry: Drug Design, Structure-Activity Relationship Campaign, Lead Optimization and Druggability Test

Synthetic Chemistry: Intermediates, Reference Compounds, Metabolites, Impurities, and Other Small Molecule Chemicals

Process Development: Development and Optimization of Synthetic Process, Quality Analysis

■ Biology Services

Recombinant Protein Expression and Purification, Crystallization and Structure Determination, Discovery Biology, SeMET Growth Media Kits and Packages, Computational Biology and Molecular Modeling, Isotope Experiments and Biomarker Testing

■ Formulation:

Solid Formulation: Tablets, Capsules, Granules, Injectable Powder

Semi-Solid Formulation: Ointments, Creams, Gels

Liquid Formulation: Injections, Oral Liquid Preparations, Sprays, Tinctures

Innovative Dosage Forms: Slow Release Formulations, Nano Preparations, Pellets, Fat Emulsions

■ Pharmaceutical Analysis

API Analysis, Formulation Analysis, Analytical Method Development and Validation, Impurity Studies, Regular Chemical Analysis

■ Preclinical Services

Pharmacokinetics: In Vivo Assays, In Vitro Assays, BE Research, A Full Set of Studies for IND (CFDA & US FDA)

Drug Safety Evaluation: Single Dose Toxicity Test, Repeated Dose Toxicity Test, Safe Pharmacology Study, Immunogenicity Test, Toxicokinetics, Reproductive Toxicology Study, Genotoxicity Study

Pharmacology: Oncology, Digestive Diseases, Endocrine and Metabolic Diseases, Inflammation and Immune Diseases, Nervous System Disease Models

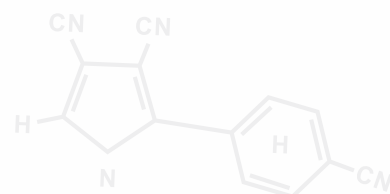
Bioanalysis: Small Molecule Drugs, Biologics (Proteins & Antibody)



CHEMISTRY



Managed by a professional team with rich experience, the Chemistry Department at Medicilon is striving to provide superior service to our sponsors. Our team is able to synthesize high-quality compounds for our sponsors with fast turn-around time. We offer a full service spectrum spanning across synthetic chemistry, process development that follows ICH and CFDA regulations, API production, and analytical support. Our production capability ranges from mg to kg. Medicilon has an excellent track record of advancing projects from idea stage to API production. Our client portfolios include various high-tech companies & multi-national pharmaceutical companies. Our capability in providing services to our sponsors with high-efficiency at low-cost has earned Medicilon exceptional reputation internationally.





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Medicinal Chemistry

- New Target Assessment
- Screening and Hit Discovery Based on Structure Design
- Hit to Lead Optimization
- Final Lead Optimization and Candidate Nomination
- Computer - Aided Drug Design
- Structure - Activity Relationship (SAR) Study

Synthetic Chemistry

- High Quality Products From mg to kg Scale
- Synthesis of Reagents, Intermediates, Building Blocks, and Scaffolds
- Preparation of APIs or Reference Standards
- Development of Synthetic Routes for Impurities and Metabolites
- Analysis Support
- Delivery of Product Analysis Reports
- Services: Small Molecule Compound Custom Synthesis, Pharmaceutical Intermediates Custom Synthesis, Generic Drug Research and Development

Process and Scale-up Synthesis

- Process Development
- High Quality Products in Multi-Kilogram Quantities
- Process Analysis
- Project Management



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