



美迪西生物医药



# **Integrated Preclinical Drug Discovery and Development Services**

## **FOCUS Drug Discovery**

SHANGHAI MEDICILON INC.

# COMPANY PROFILE

From its inception in 2004, Shanghai Medicilon Inc. (STAR Market, stock code: 688202.SH) has been committed to providing comprehensive research and development (R&D) services to biopharmaceutical companies, research institutions, and any organizations working in the preclinical space, with the primary objective of supporting and accelerating pharmaceutical, biopharmaceutical and medical device R&D worldwide.



## A Comprehensive CRO for Pre-Clinical Pharmaceutical R&D

- End-to-end services and solutions covering the entire spectrum of preclinical biopharmaceutical R&D. Supporting everything from target discovery, candidate development, preclinical screening and safety through IND submission
- Focus on communication and collaboration with clients in a variety of target indication areas such as neoplasms, neurological diseases, diabetes, inflammation, etc

## State-of-the-Art Facilities

- Three R&D centers with over 794,000 ft<sup>2</sup> of lab space in Shanghai, China
- AAALAC accredited animal facilities
- GLP/GMP compliant facilities, instrumentation with FDA and NMPA regulations

## High-Performance Teams

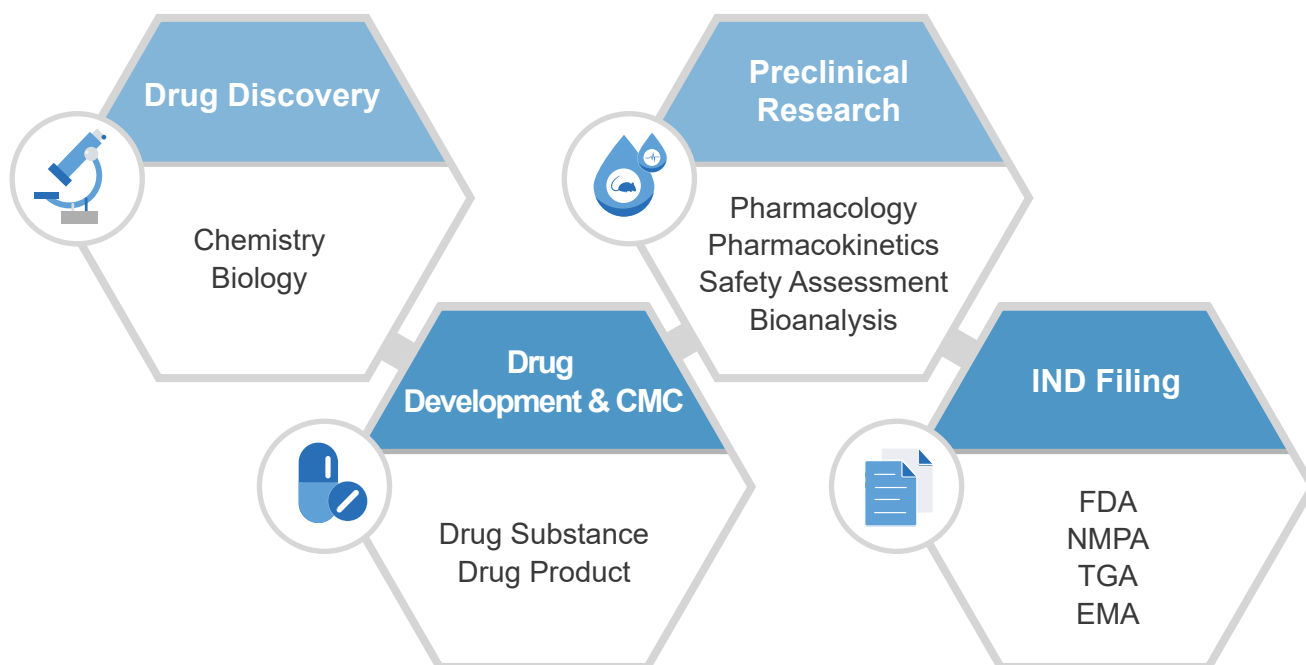
- Internationally trained scientists with Ph.D. degree and/or with 10+ years of R&D and management experience
- Timely support and consultations through one-on-one communication

## IP Protection

- Strict internal policies and excellent historical track record



## SERVICE SCOPE



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# DRUG DISCOVERY

Medicilon's **Discovery Chemistry** and **Biology** divisions have established a strong track record assisting thousands of clients worldwide with the discovery and development of small molecules, biologics as well as cell- and gene-therapies. Combining the most cutting-edge instrumentation and high-performance, experienced scientists, Medicilon has the expertise, capabilities and capacity to support projects of any size.

## Medicilon's Advantages

01

Flexible service models, including FTE and FFS, to meet diverse needs and priorities

02

Innovative technologies to meet novel R&D demands: AI-aided drug design, structure-based drug discovery (SBDD), fragment-based drug discovery (FBDD), DNA-encoded chemical library (DEL) technology, PROTAC, etc.

03

Best overall value: strong expertise and capability, rapid turnaround time, full regulatory compliance

04

Well-developed biology sharing service platform: 10+ years of cooperation with Shanghai Synchrotron Radiation Facility (SSRF)

05

Protein free rooms, purification rooms, cell culture rooms, and BSL-2 laboratories

## Chemistry Services

- Structure-activity relationship (SAR)
- Computer-aided drug design (CADD)
- Synthesis of small molecule compounds or libraries
- Chemical synthesis, discovery, and structure optimization of
  - hit compounds
  - lead compounds
- Custom synthesis
- Synthesis of standards, reference compounds, and molecular probes
- Synthesis of special reagents, intermediates, and molecular fragments
- Synthesis of impurities and metabolites
- Synthesis of stable isotope internal standards
- Synthesis of deuterated compounds
- Synthesis and resolution of chiral compounds
- Scale-up synthesis of up to kilogram-quantity

## New Platforms

- PROTAC
- DNA-encoded chemical library (DEL) screening
- AI-enabled drug discovery
- Bioelectronic isostere technology
- Green chemistry

## Biology Services

### Structural Biology

- X-ray crystallography and Cryo-EM analysis
- Protein expression and purification (prokaryotic protein, yeast protein, insect cell protein, mammalian cell protein)
- Preparation of M9 culture medium containing Se substituent

### *In Vitro* Biology

- Compound, CDC, ADCC cytotoxicity assay
- Gene editing and stable cell line construction
- CAR-T/CAR-NK construction and target cell killing

### Computational Biology

- 3D organoid-based drug screening
- High-throughput kinase, receptor-targeted agonist/antagonist screening
- Virtual screening
- FBDD services

### Expression and Purification of Recombinant Proteins

- Prokaryotic expression system (*E. coli*)
- Insect cell protein expression system (Baculovirus)
- Mammalian cell protein expression system (Fc, Human Serum Albumin, 3xFlag, GST, 6His)
- Yeast protein expression system

### Protein Crystal Services

- Protein crystal condition high throughput screening
- Protein synchrotron radiation diffraction data collection
- Protein-compound co-crystallization  
Fragment screening

### Recombinant Kinase Preparation

- Various expression systems: insect cells, HEK293 cells, *E. coli*
- Holoenzyme or kinase region
- Screening at analysis level and structure biology level
- Recombinant kinase products



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