



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 ft² of lab space in Shanghai, China
- AAALAC accredited animal facilities
- GLP/GMP compliant facilities, instrumentation with FDA and NMPA regulations

High-Performance Teams

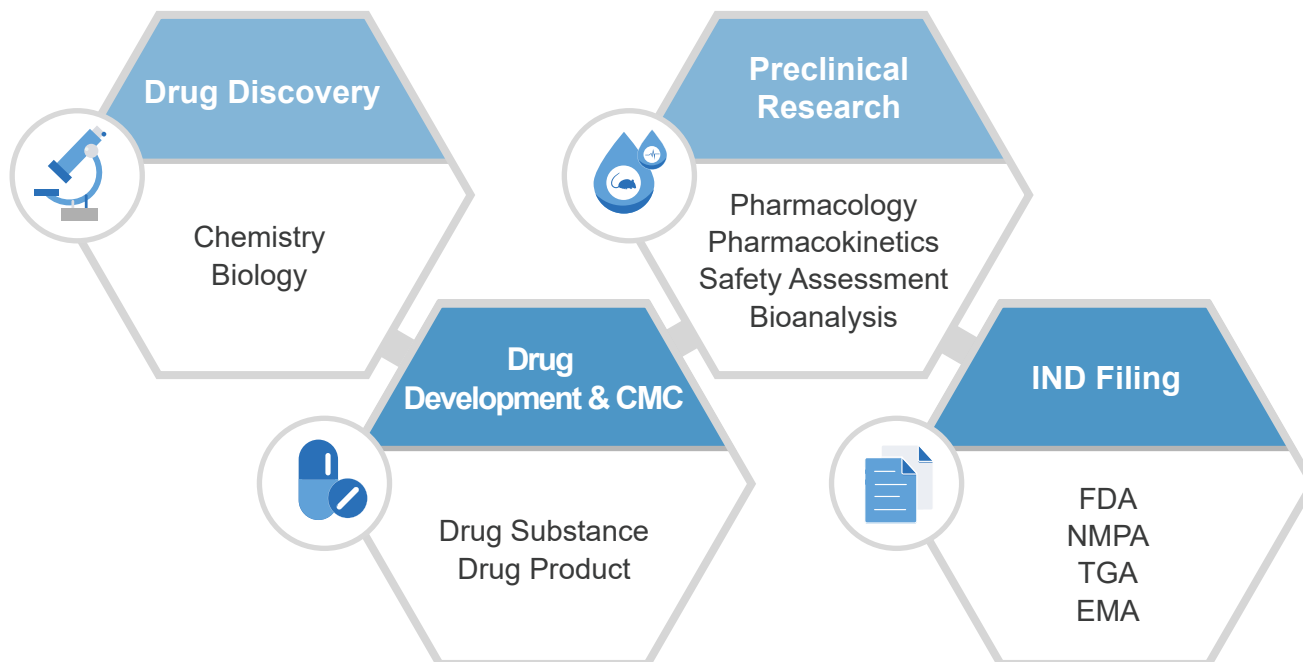
- Internationally trained scientists with Ph.D. degree and/or with 10+ years of R&D and management experience
- Timely support and consultations through one-on-one communication

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

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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