



CAERULUM
喀露蓝

上海喀露蓝科技有限公司

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Shanghai Caerulum Pharma Discovery Co., Ltd. is a research outsourcing service organization (CRO) dedicated to provide high quality professional drug development services, including the design and production of novel pharmaceutical intermediates and positive compounds, preclinical pharmacokinetics and drug safety evaluation.

■ Overview

Established in 2012, Caerulum now consists of 5 standard laboratories and 2 pilot laboratories focused on chemical production plus one DMPK lab and analytical room occupying a space of over 1000m².

■ Core Business

- Synthesis of various types of intermediates and APIs
- Scale-up of existing synthetic processes
- Preclinical *in vitro* and *in vivo* pharmacokinetic evaluation
- Drug Safety Evaluation

■ Technical Advantages

- Capable of challenging organic synthesis projects
- Professional technical team to support preclinical biological evaluation, new drug development and registration
- Cost effective and efficient
- One-stop service from compound synthesis to preclinical evaluation





Pharmacokinetic Services

The DMPK department was established in 2017, and comprised of bioanalysis, *in vitro* ADME, *in vivo* PK and toxicology modules. Lead of the department is a renowned DMPK expert who has led and successfully completed the groundwork of DMPK and toxicology in three major R&D centers in China. Under her supervision, the DMPK department of Caerulum Pharma is confident of bringing solutions to issues related to preclinical DMPK and toxicology evaluation, project management and IND registration for innovative drugs. It is our aspiration to come alongside every client to help achieve your goal in drug discovery and development.

Study Domains

Small molecules, natural products, large molecules (polypeptides)

Technology platforms

Various species of animal model

Mouse, rat, Beagle dog, monkey, rabbit, guinea pig and experimental model animal

Various routes of administration

Intra gavage (i.g.), intravenous (i.v.; bolus, infusion), intramuscular (i.m.), subcutaneous (s.c.), intraperitoneal (i.p.), hepatic portal vein, intraduodenal, intratracheal, nasal drip, intraocular and intracerebroventricular administration.

Biological matrix collection

Blood, tissues, cerebrospinal fluid, lymph fluid, bile, urine and feces.



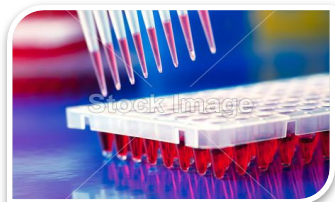
Pharmacokinetic Services

The DMPK department of Caerulum Pharma is fully equipped with the latest LC/MS/MS as well as related instruments and Phenix Winnolin software. Our team of experienced staff provides reliable early stage pharmacokinetic evaluations including a variety of *in vitro* and *in vivo* DMPK screening platforms. It is our commitment to offer flexible and personalized services for rapid and cost-effective DMPK solutions to increase the success of your research.



Bioanalysis Services

- Development and validation of biological sample analytical method
- Quantitative analysis of various biological samples



In vitro ADME

- Liver microsomal metabolic stability
- CYPs inhibition
- CYP reaction phenotyping
- Plasma/tissue protein binding assay
- Stability in vehicle and plasma
- Metabolite identification and species difference
- Drug-drug interaction (DDI)



In vivo PK

- Quick pharmacokinetic screening in various species
- Tissue distribution
- Excretion and mass balance
- Blood-brain barrier permeability (BBB)



Drug Safety Evaluation

- Single Dose Toxicity Test (rodent and non-rodent)
- Repeat Dose Toxicity Test (rodent and non-rodent)
- Abnormal toxicity test
- Toxicokinetic study

