

Drug Metabolism and Pharmacokinetics Services



WuXi AppTec is a global leader in providing discovery, testing and manufacturing services for the pharmaceutical, biotechnology and medical device industries. Research-driven and customer-focused, with operations in China and the U.S., WuXi AppTec offers a broad and integrated portfolio of services designed to assist our customers with cost-effective and efficient outsourcing solutions.

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NYSE**

In Vivo Pharmacokinetics

- **Rapid Turnaround**
 - Five working days
- ***In Vivo* Dosing**
 - Bolus IV
 - IV infusion
 - Oral
 - Intra-duodenal
 - Subcutaneous
 - Intra-portal
- **Biological Matrices**
 - Blood/plasma
 - Bile
 - Cerebrospinal fluid
 - Tissues or tumor specimens
 - Urine
- **Service Offerings**
 - Bioavailability
 - Biliary vs. urinary excretion
 - Dose ranging and proportionality
 - Bioequivalence
- **Deliverables**
 - Sample concentrations
 - PK parameters
- **Species**
 - Rodent
 - Canine
 - Non-human primate
 - Rabbit
 - Guinea pig

In Vitro ADMET Profiling

- ***In Vitro* Metabolism**
 - Study Types
 - Protein binding
 - Stability in different pH buffers, plasma and artificial intestinal fluid
 - Permeability assay
 - PAMPA
 - Caco-2
 - MDR1 and MDCK
 - Cell proliferation and cytotoxicity
 - Metabolic stability and biotransformation
 - Test systems (microsomes, hepatocytes, S9, recombinant enzymes)
 - Species (rodent, guinea pig, rabbit, canine, non-human primate, human)
 - Drug-drug-interaction (in vitro and in vivo)
 - CYP inhibition
 - CYP induction
 - CYP phenotyping
 - Metabolite ID and profiling
 - Mass balance and drug disposition

For more information on WuXi AppTec's services please contact:

U.S.
+1 (651) 675 2000 • +1 (888) 794 0077
info@wuxiapptec.com

China
+86 (21) 5046 2477
customer_service@wuxiapptec.com

www.wuxiapptec.com