**Model Name**  
Pharmacokinetics (PK) Study, Plasma, In-life, Rat  

**Item Number**  
515500  

**Introduction**  
This study is to bring early stage pharmacokinetic (PK) data for evaluating new molecular entity and is prerequisite for interpreting preclinical efficacy and toxicology results.

**Procedure Summary**  
Test compound is administered i.v. (2 mg/kg) or p.o. (10 mg/kg) to groups of 3 animals. At designed time points post test compound administration, the animals are euthanized and plasma samples are obtained and stored at -70°C. Plasma samples are sent back to the sponsor, or are processed using the extraction procedure and then analyzed using the HPLC MS/MS or HPLC MS method.

**Suggested Testing**  
- n=3/time point or 3 in total  
- A dose of 2 mg/kg for i.v. and 10 mg/kg for p.o.  
- Dosing volume at 5 mL/kg for i.v and 10 mL/kg for p.o.  
- Sampling time points: 3, 10, 30, 60, 120, 240, 360 and 1,440 minutes post i.v. dosing or 10, 30, 60, 120, 240, 360, 480 and 1,440 minutes post p.o. dosing  

**Turnaround Time(s)**  
- Acute Assay: In-Life completion in 2-4 weeks from sample receipt  
- For Subacute Assays: 6 weeks to 3 months  

**Literature**  
Prof. Dr. med, Dr. s.c. H, Springer-Verlag Berlin Heidelberg, p.728-731, 1997  

**Related Assay(s) (Item # - Assay Name - Species)**  
515580 - Pharmacokinetics (PK) Study, BBB, In-life and Bioanalysis - Mouse  
515530 - Pharmacokinetics (PK) Study, BBB, In-life and Bioanalysis - Rat  
515520 - Pharmacokinetics (PK) Study, BBB, In-life - Rat  
515510 - Pharmacokinetics (PK) Study, Plasma, In-life and Bioanalysis - Rat  

**Modified Protocols**  
We will readily accommodate client-specified alterations.

**Laboratory**  
These assays are performed at our AAALAC accredited laboratory in Taipei.

**Animal Welfare**  
All aspects of this work is performed in general accordance with the Guide for the Care and Use of laboratory animals (National Academy Press, Washington, DC, 2011). The study protocol was approved by the Pharmacology Discovery Services IACUC and is performed with the oversight of veterinarians to assure the humane treatment of laboratory animals.

**Last modified September 15, 2017**

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