Model Name
Pharmacokinetics (PK) Study, BBB, In-life and Bioanalysis, Mouse

Item Number
515580

Introduction
This study is to bring early stage pharmacokinetic (PK) and blood-brain barrier (BBB) 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) to groups of 3 animals. At 30, 60 and 180 minutes post dosing, the animals are euthanized by CO2 and plasma samples and brains are harvested and stored at -70 °C before shipment back to sponsor or until further analysis using the HPLC MS/MS or HPLC MS method.

Suggested Testing
• n=3/ time point
• An initial dose of 2 mg/kg is suggested
• Dosing volume at 5 or 10 mL/kg

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)
509600 - Behavior, Modified Irwin Screen  - Rat
561600 - Maximum Tolerated Dose, Autonomic Signs  - Rat
515570 - Pharmacokinetics (PK) Study, BBB, In-life  - Mouse
515555 - Pharmacokinetics (PK) Study, Plasma, In-life and Bioanalysis  - Mouse
515510 - Pharmacokinetics (PK) Study, Plasma, In-life and Bioanalysis  - Rat
515500 - Pharmacokinetics (PK) Study, Plasma, In-life  - 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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