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# **iPRECIO®**

## - The Ultimate Choice for Neuroscience

iPRECIO® for automated drug delivery Imagine/Program your future without manual injections













**SMP-310R** 

SMP-200

Intracerebral administration is the only way to deliver a drugs directly into the cerebral ventricle (intraventricular) or cerebral parenchyma (intraparenchymal) without crossing the Blood Brain Barrier. The ability to infuse directly into the brain with a specialized infusion kit in combination with a programmable and refillable implantable pump makes it an ideal behavioral pharmacological model where stress is significantly reduced in a freely moving animal. Very sensitive acute and chronic studies may be achieved with the iPRECIO® and brain infusion kit combination.

- C Direct delivery of agents across the blood brain barrier
- Microprocessor controlled delivery of agents with start and stop times
- Intra-animal vehicle and dose response (without additional surgery)
- Chronic infusions up to 6 months\* or 67 days§
- Convenient and cost effective for intra-animal PK/PD studies
- Individually calibrated pumps for maximum accuracy

\* SMP-200 : 1ul/hour

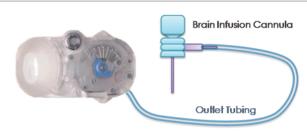
§ SMP-310R: 0.1ul/hour (Communication - None)



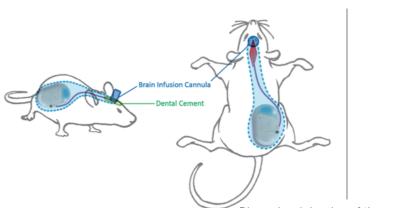
iPRECIO® Brain Infusion Kit Starter Kit Cranial Infusion Kit for iPRECIO® Pump				
Mouse Brain Kit	①Osmotic Pump Cannula	(5)	⑤Drill Bit Holder	(1)
Mouse Brain Rit	②Stainless steel screw	(5)	6 Drill Bit for Screw	(1)
Rat Brain Kit	③Cannula Holder	(1)	6 Drill Bit for Cannula	(1)
	4 Cyanoacrylate Gel	(1)	7)Screw Driver Holder	(1)

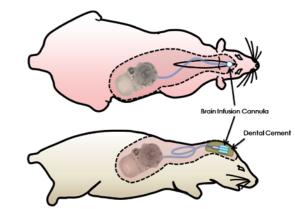
#### Mouse Brain Kit

#### Rat Brain Kit

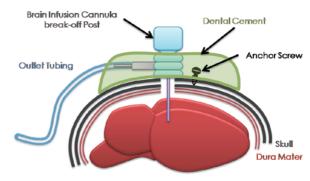


Connect the brain infusion cannula





Dimensional drawing of the pump pocket and the cannula placement



Brain infusion cannula placement

More details in iPRECIO® Technical Note No.6 'Recommendations for Intracerebral Administration

#### **Mouse Brain Kit**

- 26 Gauge Osmotic Pump Cannula,
   Cut x.x mm Below Pedestal (\_\_\_\_mm
- Stainless Steel Screws, 1.6mm Shaft Length
- Cyanoacrylate Gel, 3 grams
- Cannula Holder for \_\_\_\_\_ Manipulator, x.x mm Shaft Diameter ( mm)
- Screw Driver Holder for 0-96 Screws
- Drill Bit Holder for D#56/70 Drill Bit
- Drill Bit for 0-90 Screw, 1.00mm Diameter
- Drill Bit for Osmotic Cannula, .711mm, 24 Gauge

#### **Rat Brain Kit**

- Osmotic Pump Cannula,
  Cut x.x mm Below Pedestal (\_\_\_\_mm)
- Stainless Steel Screws, 2.4mm Shaft Length
- Cyanoacrylate Gel, 3 grams
- Cannula Holder for \_\_\_\_\_ Manipulator, x.x mm Shaft Diameter (\_\_\_\_mm)
- Screw Driver Holder for 0-80 Screws
- Drill Bit Holder for D#58/69 Drill Bit
- Drill Bit for 0-80 Screw, 1.07mm Diameter
- Drill Bit for 322OP Cannula, 22 Gauge



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