

# Neuroscience Cannulas

## For in vivo investigation of rodents



Cannula assembly: fixing screw, internal cannula with attached tubing, and guide cannula.



Internal cannula secured with fixing screw.

ANIMAL SURGERY & SUPPORT

**Exceptional Quality**  
**Best Prices**  
**Rapid Order Response**

This cannula system for neuroscience study and pre-clinical research includes an entire range of cannula options. The three primary components include the Guide Cannula, the Internal Cannula and the Dummy Cannula (cap)

- WPI cannulas are beveled inside and out and then polished to remove any burrs and ensure that the inside diameter is perfectly cylindrical. This limits undesired trauma to tissue and ensures smooth operation.
- WPI offers exceptional quality at the best prices.
- Quantities of each item are kept in stock so you can order as needed.

### Guide Cannulas

Gauge	OD	ID
22	0.64	0.46
24	0.56	0.40
26	0.48	0.32



The Guide Cannula is a surgical grade, stainless steel tube that is implanted into a rodent's skull and cemented into place using dental cement and screws. It guides the Internal Cannula to the specific injection site.

### Internal Cannula

Gauge	OD	ID
22	0.41	0.26
24	0.36	0.21
26	0.30	0.16



The Internal Cannula is inserted into the Guide Cannula to sample or inject fluid.

### Dummy Cannula



The Dummy Cannula has a stainless steel wire

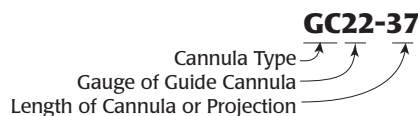
core, and it is placed in the Guide Cannula when the Internal Cannula is removed. It seals the opening and prevents tissue from entering the bottom of the Guide Cannula. The Dummy Cannula is threaded to securely tighten it so that the animal will not unscrew it while grooming.

### Ordering

Order the Guide Cannulas based on the gauge and length from the base and the Internal or Dummy Cannulas based on the length of the Guide Cannula and the projection from the Guide Cannula tip.

### Understanding Part Numbers

#### Cannula Type



GC—Guide Cannula

INC—Internal Cannula

DUMC—Dummy Cannula

Gauge—Choose the gauge of the Guide Cannula that will be used, even if you are specifying an

Internal or Dummy Cannula. Choices include 22, 24 and 26 gauge.

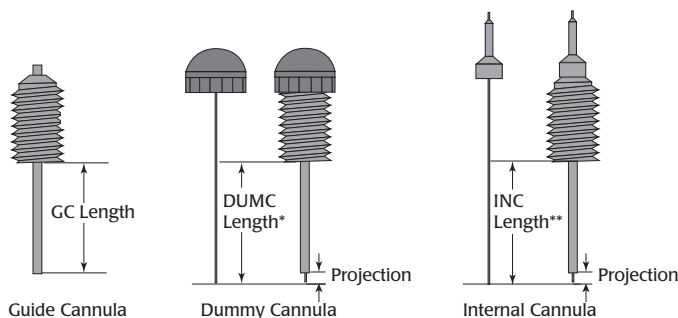
Length—Guide Cannulas can be ordered in a range of lengths from 1.0–9.9mm. Length can be specified to 0.1mm, with a tolerance of  $\pm 0.07$ mm. For example, a **GC24-60** is a 24ga. cannula that is 6.0mm long.

For other cannulas, the length is determined by the desired projection length and the guide cannula length. The projection can extend beyond the tip of the Guide Cannula up to 1.0mm.

$$DUMC \text{ Length} = GC \text{ Length} + \text{Projection}$$

$$INC \text{ Length} = GC \text{ Length} + \text{Projection}$$

For example, for a Dummy Cannula flush with the end of a 26ga Guide Cannula that is 6.0mm long, order a **DUMC26-60**. For an internal cannula that projects 0.5mm beyond the 6.0mm Guide Cannula (6.5mm), order an **INC26-65**.



\* DUMC Length = GC Length + Projection. If the cap is screwed on too tightly, the projection will be longer than expected.  
\*\* INC Length = GC Length + Projection. Internal cannula mounts flush and does not screw into place.

### Cannulas

		Qty 1-9	Qty 10-19	Qty 20-49	Qty 50-99	Qty 100+
<b>GC22-X</b>	Guide Cannula, 22 Gauge, X.0mm					
<b>INC22-X</b>	Internal Cannula, 22 Gauge, X.0mm					
<b>DUMC22-X</b>	Dummy Cap Cannula, 22 Gauge, X.0mm					
<b>GC24-X</b>	Guide Cannula, 24 Gauge, X.0mm					
<b>INC24-X</b>	Internal Cannula, 24 Gauge, X.0mm					
<b>GC26-X</b>	Guide Cannula, 26 Gauge, X.0mm					
<b>INC26-X</b>	Internal Cannula, 26 Gauge, X.0mm					
<b>DUMC26-X</b>	Dummy Cap Cannula, 26 Gauge, X.0mm					

### Flexible PE Tubing

		Qty 1-9	Qty 10-19	Qty 20-49	Qty 50-99	Qty 100+
<b>504278</b>	0.25mm ID, 0.5mm OD, 1m long					
<b>504279</b>	0.42mm ID, 0.85mm OD, 1m long					
<b>504280</b>	0.6 mm ID, 1.1mm OD, 1m long					

Flexible PE tubing are recommended to connect to Internal Cannula (INC) only, NOT Guide Cannula (GC) or Dummy Cap (DUMC).

504278 matches INC26-XX    504279 matches INC24-XX    504280 matches INC22-XX

### Misc. Accessories

		Qty 1-9	Qty 10-19	Qty 20-49	Qty 50-99	Qty 100+
<b>504281</b>	Fixing Screw for connection of INC & GC					
<b>504282</b>	Instant Cyanoacrylate Adhesive, 3g					
<b>504283</b>	Instant Cyanoacrylate Adhesive, 20g					

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