

## Fast Blue

**CAS Number:** 74749-42-1

Fast blue is a fluorescent dye commonly used as a neuronal tracer and referred to as a hydrophilic retrograde tracer.

Other neuronal tracers are True Blue, Evans Blue and Nuclear Yellow, commonly used in conjunction with Fast Blue, although Fast Blue can be used alone or with other types of fluorescent retrograde and anterograde tracer dyes.

Fast Blue is the most commonly used neuronal tracer due to longer luminescence, although its sensitivity depends on the survival of time of the animal after the injection. In order to obtain brilliant fluorescent labeling, luminescence usually begins at day three and usually strongest at days 5-9 post injection. Euthanasia occurs between 4-7 days post injection in most animals.

These dyes can be injected into laboratory animals at a concentration of 1.5-2.5% w/v in water, isotonic saline, and ethanol. Common protocols recommend injecting 5-10 microliters of the 2.0 % concentration into the desired area of the laboratory animal.

**Excitation wavelength:** 365nm

**Emission wavelength:** 420nm

*These protocols are offered as guides. Depending on the situation alternations maybe needed due to the laboratory animal or research being done.*

*Adv. Cell. Neurobiol., 5, 307 (1984); J. Anat. Soc. India 48 (2) 67-72 (1999)*

**Soluble In:** water, lower alcohols

**Hazards:** Unknown

**Handling:** Glove, chemical goggles & chemical mask or hood

**Storage:** Store at room temperature

**Code:** U7g - ([hazard/handling/storage codes](#))