

**Product Name:** Sulforhodamine 101

**Catalog No.:** 5146

**Batch No.:** 1

**CAS Number:** 60311-02-6

**IUPAC Name:** 9-(2,4-Disulfophenyl)-2,3,6,7,12,13,16,17-octahydro-1*H*,5*H*,11*H*,15*H*-xantheno[2,3,4-ij:5,6,7-ij']diquinolizin-18-ium inner salt

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{31}H_{30}N_2O_7S_2 \cdot 2\frac{1}{2}H_2O$

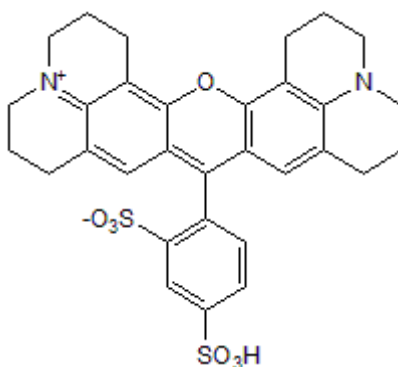
**Batch Molecular Weight:** 651.75

**Physical Appearance:** Dark green solid

**Solubility:** DMSO to 50 mM  
ethanol to 20 mM  
water to 50 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 96% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.13	5.41	4.3
Found	56.89	5.28	4.33

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
www.RnDSystems.com

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**Description:**

Fluorescent dye. Selective astrocyte marker.

**Physical and Chemical Properties:**

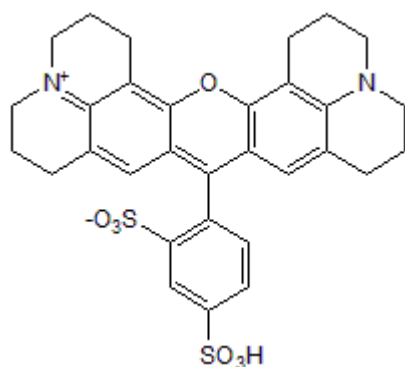
Batch Molecular Formula: C<sub>31</sub>H<sub>30</sub>N<sub>2</sub>O<sub>7</sub>S<sub>2</sub>·2½H<sub>2</sub>O

Batch Molecular Weight: 651.75

Physical Appearance: Dark green solid

**Minimum Purity:** >95%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 50 mM

ethanol to 20 mM

water to 50 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Nimmerjahn** *et al* (2004) Sulforhodamine 101 as a specific marker of astroglia in the neocortex in vivo. *Nat.Methods* **1** 31. PMID: 15782150.

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www.RnDSYSTEMS.com

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