

Product Name: Sulforhodamine 101

Catalog No.: 5146

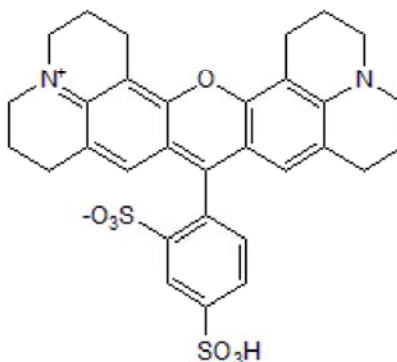
Batch No.: 3

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']diquinolizin-18-ium inner salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₁ H ₃₀ N ₂ O ₇ S ₂
Batch Molecular Weight:	606.71
Physical Appearance:	Green solid
Solubility:	ethanol to 20 mM water to 50 mM
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.8% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
UV Spectrum:	Consistent with structure
λ_{max}:	575 nm (ethanol)
λ_{ex}:	578 nm (ethanol)
λ_{em}:	592 nm (ethanol)

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

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Description:

Fluorescent dye (excitation maximum ~ 586 nm; emission maximum ~ 606). Selective astrocyte marker. Sulforhodamine 101 acid chloride (Cat. No. 5442) also available.

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.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₁H₃₀N₂O₇S₂

Batch Molecular Weight: 606.71

Physical Appearance: Green solid

Solubility & Usage Info:

ethanol to 20 mM

water to 50 mM

Minimum Purity: ≥95%

Stability and Solubility Advice:

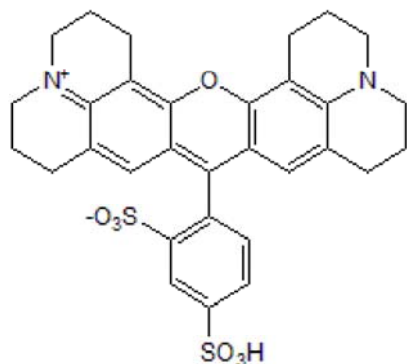
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

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.

Batch Molecular Structure:



References:

roth et al (2014) Transcranial amelioration of inflammation and cell death after brain injury. *Nature* **505** 223. PMID: 24317693.

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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