Print Date: Mar 14th 2022

Certificate of Analysis

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Product Name: **Sulforhodamine 101 acid chloride** **Catalog No.: 5442** **Batch No.: 1**

CAS Number: 82354-19-6

IUPAC Name: 9-[4-(Chlorosulfonyl)-2-sulfophenyl]-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-i'j'] diquinolizin-18-ium, inner salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{31}H_{29}ClN_2O_6S_2$

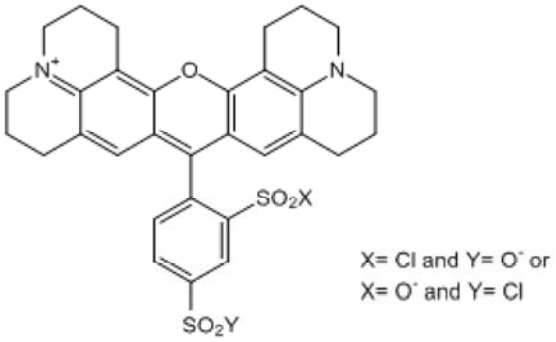
Batch Molecular Weight: 625.15

Physical Appearance: Purple solid

Solubility: ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

Mass Spectrum: Consistent with structure

λ_{max}: 587 nm (Chloroform)

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Product Information

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Description:

Sulforhodamine 101 acid chloride is a red fluorescent dye for the labeling of amines. Excitation maximum ~ 588 nm; emission maximum ~ 601 nm. Sulforhodamine 101 (Cat. No. 5146) also available.

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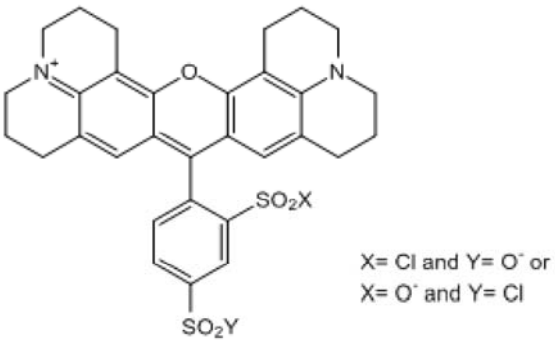
Physical Appearance: Purple solid

Batch Molecular Structure:



Storage: Store at -20°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:

ethanol to 100 mM

This compound is highly unstable in aqueous solutions, and will hydrolyse in a matter of minutes at room temperature. Avoid using DMSO, as this compound reacts with this solvent.This compound may also be unstable in aliphatic alcohols. We recommend keeping solutions cold and using them immediately.

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:

Schneider *et al* (2013) Selective detection of allosteric phosphatase inhibitors. J.Am.Chem.Soc. ***135*** 6838. PMID: 23611635.