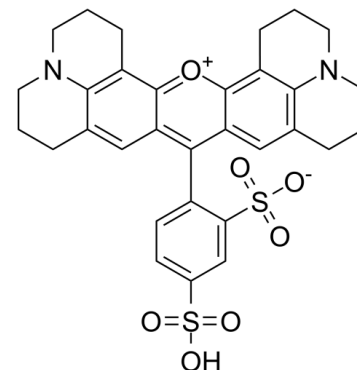


Data Sheet

Product Name:	Sulforhodamine 101
Cat. No.:	CS-7999
CAS No.:	60311-02-6
Molecular Formula:	C ₃₁ H ₃₀ N ₂ O ₇ S ₂
Molecular Weight:	606.71
Target:	Others
Pathway:	Others
Solubility:	DMSO : ≥ 75 mg/mL (123.62 mM)



BIOLOGICAL ACTIVITY:

Sulforhodamine 101 is a red fluorescent dye. **In Vitro:** Sulforhodamine 101 does not label astrocytes in brainstem slices as strong and specific as in the hippocampus or cortex. To minimize excitatory side effects, the concentration of Sulforhodamine 101 has to be kept as low as possible or the labeling procedure can be performed after the actual experiment^[1]. **In Vivo:** In vivo, epileptic activity can be induced by intra-hippocampal injection of small volumes of 10 μM Sulforhodamine 101 or topical application of 100 μM^[1].

PROTOCOL (Extracted from published papers and Only for reference)

Cell Assay: ^[1]Acute brain slices are usually incubated in carbonated extracellular solution containing 0.5 to 1 μM Sulforhodamine 101 for 20 to 30 min and 34 to 37°C. Following this, excess dye is removed over a period of 10 to 30 min using different protocols that were described earlier^[1]. **Animal Administration:** ^[1]For in vivo imaging, Sulforhodamine 101 (SR101) is applied topically at concentrations of 250 nM to 300 μM or by bolus injection. Additionally, Sulforhodamine 101 injection over the tail vein (10 mg/mL) has been reported to be successful^[1].

References:

[1]. Hülsmann S, et al. Limitations of Sulforhodamine 101 for Brain Imaging. *Front Cell Neurosci.* 2017 Feb 28;11:44.

CAIndexNames:

1H,5H,11H,15H-Xantheno[2,3,4-ij:5,6,7-i'j']diquinolizin-18-ium, 9-(2,4-disulfophenyl)-2,3,6,7,12,13,16,17-octahydro-, inner salt

SMILES:

O=S(C1=CC=C(C(C2=CC3=C4N(CCC3)CCCC4=C2[O+]=C56)=C5C=C7CCCN8CCCC6=C87)C(S(=O)([O-])=O)=C1)(O)=O

Caution: Product has not been fully validated for medical applications. For research use only.

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