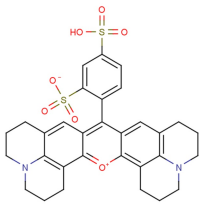
Data Sheet (Cat.No.T19062)

TargetMol
A DRUG SCREENING EXPERT

Sulforhodamine 101

Chemical Properties



CAS No.:	60311-02-6
Formula:	C31H30N2O7S2
Molecular Weight:	606.71
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Sulforhodamine 101 is a red fluorescent dye.
Targets(IC_{50})	Others: None
In vitro	Sulforhodamine 101 does not label astrocytes in brainstem slices as specific and strong as in the cortex or hippocampus. To minimize excitatory side effects, the concentration of Sulforhodamine 101 has to be kept as low as possible [1].
In vivo	In vivo, Sulforhodamine 101 can induce epileptic activity by intra-hippocampal injection of small volumes of 10 μM or topical application of 100 μM [1].

Solubility Information

Solubility	DMSO: 45 mg/mL (74.17 mM) H2O: 8 mg/mL (13.19 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.648 mL	8.241 mL	16.482 mL
5 mM	0.330 mL	1.648 mL	3.296 mL
10 mM	0.165 mL	0.824 mL	1.648 mL
50 mM	0.033 mL	0.165 mL	0.330 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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

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