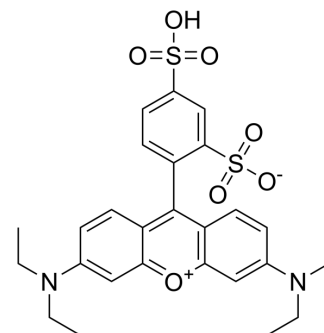


Lissamine rhodamine B

Cat. No.:	HY-117468		
CAS No.:	2609-88-3		
Molecular Formula:	C ₂₇ H ₃₀ N ₂ O ₇ S ₂		
Molecular Weight:	558.67		
Target:	Fluorescent Dye		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 5 mg/mL (8.95 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
1 mM		1.7900 mL	8.9498 mL	17.8997 mL
5 mM		0.3580 mL	1.7900 mL	3.5799 mL
10 mM		---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Lissamine rhodamine B is a red-fluorescent dye, it is a derivative of rhodamine. Lissamine rhodamine B can be used as a fluorescent probe to develop competitive aptamer fluorescence anisotropy/polarization (FA/FP) assays^{[1][2]}.

In Vitro

Lissamine rhodamine B (1 mg; 1 h; room temperature; dark) can be used to detect ochratoxin A (OTA) which is a common mycotoxin^[1].

Lissamine rhodamine B have fluorescence properties, with the fluorescence detection conditions: excitation wavelength 555 nm, fluorescence emission spectrum detection 580 nm^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Lissamine rhodamine B can be used as an aradiotracer for imaging tumor mice by positron emission tomography (PET)^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Li Y, et al. Fluorescence Anisotropy-Based Signal-Off and Signal-On Aptamer Assays Using Lissamine Rhodamine B as a Label for Ochratoxin A. J Agric Food Chem. 2020 Apr 8;68(14):4277-4283.

[2]. Li X, et al. The Synthesis and Evaluations of the (6 8) Ga-Lissamine Rhodamine B (LRB) as a New Radiotracer for Imaging Tumors by Positron Emission Tomography. Biomed Res Int. 2016;2016:8549635.

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

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