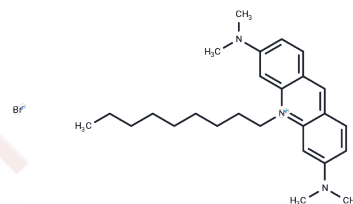


Acridine Orange 10-Nonyl Bromide

Chemical Properties

CAS No. :	75168-11-5
Formula:	C ₂₆ H ₃₈ BrN ₃
Molecular Weight:	472.5
Appearance:	no data available
Storage:	keep away from direct sunlight
	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Acridine Orange 10-Nonyl Bromide is a cardiolipin fluorescent probe (λ_{ex} : 489 nm, λ_{em} : 525 nm).
Targets(IC50)	Others
In vivo	Acridine Orange 10-Nonyl Bromide serves as a fluorescent probe specifically for cardiolipin, exhibiting excitation (λ_{ex}) at 489 nm and emission (λ_{em}) at 525 nm, enabling the quantification of cardiolipin in isolated mitochondria[1]. Interaction with cardiolipin alters its excitation and emission wavelengths from 496 and 525 nm to 450 and 640 nm, respectively. Moreover, the addition of varying levels of cardiolipin (0 to 30 μ M) and other acidic phospholipids to Acridine Orange 10-Nonyl Bromide (45 μ M) in thin-walled vesicles results in measurable changes in the red fluorescence emission at 640 nm, reflective of the liposome composition[2].

Solubility Information

Solubility	DMSO: 25 mg/mL (52.91 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1164 mL	10.582 mL	21.164 mL
5 mM	0.4233 mL	2.1164 mL	4.2328 mL
10 mM	0.2116 mL	1.0582 mL	2.1164 mL
50 mM	0.0423 mL	0.2116 mL	0.4233 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Ratinaud MH, et al. In situ flow cytometric analysis of nonyl acridine orange-stained mitochondria from splenocytes. Cytometry. 1988 May;9(3):206-12.

Gallet PF, et al. Direct cardiolipin assay in yeast using the red fluorescence emission of 10-N-nonyl acridine orange. Eur J Biochem. 1995 Feb 15;228(1):113-9.

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