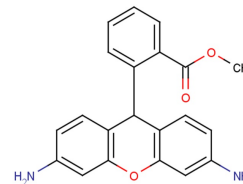


Dihydrorhodamine 123

Chemical Properties

CAS No.:	109244-58-8
Formula:	C ₂₁ H ₁₈ N ₂ O ₃
Molecular Weight:	346.38
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Dihydrorhodamine 123 is a fluorescent probe (λ_{ex} =488 nm, λ_{em} =525 nm).
Targets(IC ₅₀)	Others: None
In vitro	In the presence of 10 μ M Dihydrorhodamine 123 (DHR 123), the stimulation of the neutrophil NADPH oxidase by the addition of 50 nM phorbol 12-myristate 13-acetate (PMA) results in an increase in the rate of rhodamine generation. In the presence of 10 μ M Dihydrorhodamine 123, induced HL60 cells show a sustained increase in fluorescence following the addition of 50 nM PMA.

Solubility Information

Solubility	DMSO: 100 mg/mL (288.70 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.887 mL	14.435 mL	28.87 mL
5 mM	0.577 mL	2.887 mL	5.774 mL
10 mM	0.289 mL	1.444 mL	2.887 mL
50 mM	0.058 mL	0.289 mL	0.577 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Lydia M. Henderson et al. Dihydrorhodamine 123: a fluorescent probe for superoxide generation? Eur.J.Biochem. 217, 973-980.

Inhibitors · Natural Compounds · Compound Libraries

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