

Lucifer Yellow CH dilithium salt

Chemical Properties

CAS No.:	67769-47-5
Formula:	C ₁₃ H ₉ Li ₂ N ₅ O ₉ S ₂
Molecular Weight:	457.25
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Lucifer Yellow CH dilithium salt is a highly fluorescent dye that is useful in marking nerve cells[1] and is assumed to be nontoxic. It is membrane impermeable and highly dissociated at physiological pH values[2][3].
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.187 mL	10.935 mL	21.87 mL
5 mM	0.437 mL	2.187 mL	4.374 mL
10 mM	0.219 mL	1.093 mL	2.187 mL
50 mM	0.044 mL	0.219 mL	0.437 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

- Stewart WW. Functional connections between cells as revealed by dye-coupling with a highly fluorescent naphthalimide tracer. Cell. 1978 Jul;14(3):741-59.
- Klein M, et al. Transport of lucifer yellow CH into plant vacuoles--evidence for direct energization of a sulphonated substance and implications for the design of new molecular probes. FEBS Lett. 1997 Dec 22;420(1):86-92.
- Takeuchi K, et al. Effect of superoxide derived from lucifer yellow CH on voltage-gated currents of mouse taste bud cells. Chem Senses. 2008 Jun;33(5):425-32.

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