

LysoTracker Yellow HCK 123

Chemical Properties

CAS No. : 1064123-31-4

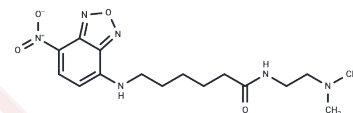
Formula: C₁₆H₂₄N₆O₄

Molecular Weight: 364.4

Keep away from direct sunlight

Storage: Store at -20°C

Actual storage temperature shall be subject to the COA.



Biological Description

Description	LysoTracker Yellow HCK 123 is a highly selective fluorescent probe designed for labeling acidic organelles in live cells, particularly lysosomes. The probe accumulates in acidic compartments via its weak base moiety. In plant sciences, it has been discovered to specifically label silica-deposition vesicles (SDVs) in diatoms, serving as a vital tool for studying biosilicification. In pharmacological research, it is frequently utilized to track the intracellular localization of drug delivery systems (e.g., polymeric micelles) to verify endocytosis and trafficking pathways through colocalization analysis.
Targets(IC50)	Others
In vitro	In cellular assays, LysoTracker Yellow HCK 123 is typically applied at a final concentration of 0.1-50 μM. After incubating cells (e.g., in 8-well slides) at 37 °C and 5% CO ₂ for 30 minutes, followed by a PBS wash, the samples are analyzed via confocal laser scanning microscopy (CLSM) to effectively visualize acidic organelles and track endocytic pathways [1][2].

Solubility Information

Solubility	DMSO: 50 mg/mL (137.21 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	2.7442 mL	13.7212 mL	27.4424 mL
5 mM	0.5488 mL	2.7442 mL	5.4885 mL
10 mM	0.2744 mL	1.3721 mL	2.7442 mL
50 mM	0.0549 mL	0.2744 mL	0.5488 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Desclés J, et al. New tools for labeling silica in living diatoms. *New Phytol.* 2008;177(3):822-829.

Jana Starigazdová, et al. In vitro investigation of hyaluronan-based polymeric micelles for drug delivery into the skin: the internalization pathway. *Eur J Pharm Sci* 2020 Feb 15:143:105168.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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