

LysoTracker Red

Chemical Properties

CAS No. : 231946-72-8

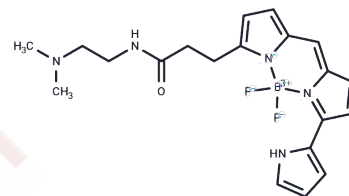
Formula: C₂₀H₂₄BF₂N₅O

Molecular Weight: 399.25

Storage: Keep away from direct sunlight, Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	LysoTracker Red (LysoTracker Red DND-99) is a fluorescent probe compound for lysosomal capture, a transport substrate for P-glycoprotein, with a maximum excitation/emission wavelength of 577/590 nm. LysoTracker Red can be used for the long-term tracking of acidic vesicles.
Targets(IC50)	Others
In vitro	Labeling HepG2 cells with 100nM LysoTracker Red DND-99 facilitates examination of lysosomal distribution.[2]

Solubility Information

Solubility	DMSO: 4 mg/mL (10.02 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	2.5047 mL	12.5235 mL	25.047 mL
5 mM	0.5009 mL	2.5047 mL	5.0094 mL
10 mM	0.2505 mL	1.2523 mL	2.5047 mL
50 mM	0.0501 mL	0.2505 mL	0.5009 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

Price OT, et al. Quantitative fluorescence of 5-FU-treated fetal rat limbs using confocal laser scanning microscopy and LysoTracker Red. *Cytometry A*. 2003;53(1):9-21.

Pereira LC, et al. An autophagic process is activated in HepG2 cells to mediate BDE-100-induced toxicity. *Toxicology*. 2017;376:59-65.

Nagahama M, et al. Cellular vacuolation induced by *Clostridium perfringens* epsilon-toxin. *FEBS J*. 2011;278(18):3395-3407.

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