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Lieferung & Zahlungsart

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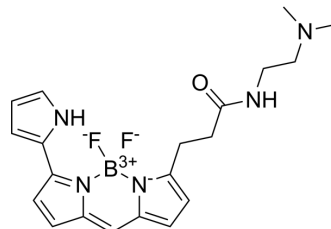
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LysoTracker Red

Cat. No.:	HY-D1300
CAS No.:	231946-72-8
Molecular Formula:	C ₂₀ H ₂₄ BF ₂ N ₅ O
Molecular Weight:	399.25
Target:	Biochemical Assay Reagents; Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (12.52 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5047 mL	12.5235 mL	25.0470 mL
	5 mM	0.5009 mL	2.5047 mL	5.0094 mL
	10 mM	0.2505 mL	1.2523 mL	2.5047 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

LysoTracker Red is a Red fluorescently labeled lysosomal probe with a maximum excitation/emission wavelength of 577/590 nm. The structure is composed of a fluorescein group and linked weak bases, which can freely cross the cell membrane and gather on spherical organelles. It is suitable for observing the internal biosynthesis and related pathogenesis of lysosomes^[1].

In Vitro

Preparation of LysoTracker Red working solution

- Working fluid configuration:
 - Restore the solution to room temperature and concentrate it at the bottom of the tube by instantaneous centrifugation.
 - Dilute 1 mM storage solution to the working solution using a medium or appropriate buffer (such as PBS). The recommended working solution is 50-100 nM;
 Note: Please adjust the concentration of the LysoTracker Red working solution according to the actual situation, and use it now.
- Cell staining
 - For suspension cells: Centrifuge at 1000 g at 4°C for 3-5 minutes and then discard the supernatant. Wash twice with PBS, 5 minutes each time.
 - For adherent cells: Discard the cell culture medium, and add trypsin to dissociate cells to make a single-cell suspension. Centrifuge at 1000 g at 4°C for 3-5 minutes and then discard the supernatant. Wash twice with PBS, 5 minutes each time.

- 2.2 Add 1 mL of LysoTracker Red working solution, and then incubate at room temperature for 5-30 minutes.
 - 2.3 Centrifuge at 400 g at 4°C for 3-4 minutes and then discard the supernatant.
 - 2.4 Wash twice with PBS, 5 minutes each time.
 - 2.5 Resuspend cells with serum-free cell culture medium or PBS, and then detect by fluorescence microscope or flow cytometer.
- MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Heliyon. 2023 Nov 22.

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REFERENCES

- [1]. 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.
- [2]. Pereira LC, et al. An autophagic process is activated in HepG2 cells to mediate BDE-100-induced toxicity. *Toxicology*. 2017;376:59-65.
- [3]. Nagahama M, et al. Cellular vacuolation induced by *Clostridium perfringens* epsilon-toxin. *FEBS J*. 2011;278(18):3395-3407.

Caution: Product has not been fully validated for medical applications. For research use only.

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