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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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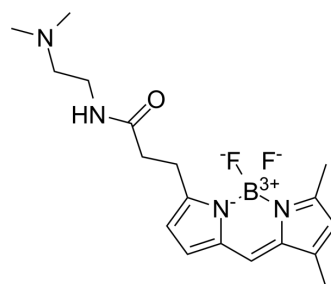
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Green DND-26

Cat. No.:	HY-D1296
CAS No.:	220524-71-0
Molecular Formula:	C ₁₈ H ₂₅ BF ₂ N ₄ O
Molecular Weight:	362.23
Target:	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 : 125 mg/mL (345.08 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7607 mL	13.8034 mL	27.6068 mL
	5 mM	0.5521 mL	2.7607 mL	5.5214 mL
	10 mM	0.2761 mL	1.3803 mL	2.7607 mL

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

BIOLOGICAL ACTIVITY

Description

Green DND-26 is a green fluorescently labeled lysosomal probe with a maximum excitation/emission wavelength of 504/511 nm. The structure is composed of a fluorescein group and linked weak bases, which can freely cross the cell membrane and generally gather on spherical organelles. Green DND-26 is suitable for observing the internal biosynthesis and related pathogenesis of lysosomes^[1].

In Vitro

Preparation of Green DND-26 working solution

1. Preparation of the stock solution

1.1 Restore the solution to the room temperature and concentrate it to the bottom of the tube by instantaneous centrifugation.

1.2 Dilute 1 mM storage solution to the working solution using medium or appropriate buffer (such as PBS) . The recommended working solution is 50-100 nM.

Note: Please adjust the concentration of Green DND-26 working solution according to the actual situation, and use it now.

Cell staining

2.1 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 Green DND-26 working solution, and then incubate at room temperature for 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.

Storage

-20°C save, Protect from light

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cancer Chemother Pharmacol. 2023 Jun 15.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Sun B, et al. Acid-Activatable Transmorphic Peptide-Based Nanomaterials for Photodynamic Therapy. *Angew Chem Int Ed Engl.* 2020;59(46):20582-20588.
- [2]. Van der Velden JL, et al. LysoTracker is a marker of differentiated alveolar type II cells. *Respir Res.* 2013;14(1):123. Published 2013 Nov 11.

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

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