SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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FM1-43

Cat. No.: HY-D1434

CAS No.: 149838-22-2

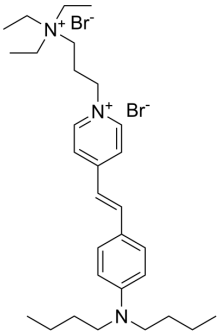
Molecular Formula: $C_{30}H_{49}Br_2N_3$

Molecular Weight: 611.54

Target: Fluorescent Dye

Pathway: Others

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (81.76 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6352 mL	8.1761 mL	16.3522 mL
	5 mM	0.3270 mL	1.6352 mL	3.2704 mL
	10 mM	0.1635 mL	0.8176 mL	1.6352 mL

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

BIOLOGICAL ACTIVITY

Description

FM1-43 is a very lipophilic, water-soluble styrene dyes, can specifically bind to cell membranes and inner membrane organelles to produce fluorescence. FM1-43 is widely used in endocytic and exospic membrane structure markers.

In Vitro

1. Preparation of FM working solution
1.1 Preparation of the stock solution
Dissolve FM in DMSO to obtain 5 mM of FM.
Note: It is recommended to store the stock solution at -20℃ or -80℃ away from light and avoid repetitive freeze-thaw cycles.
1.2 Preparation of FM working solution
Dilute the stock solution in HBSS to obtain 5-20 μM of FM working solution.
Note: Please adjust the concentration of FM working solution according to the actual situation.
2. Cell staining
2.1 Suspension cells (6-well plate)
a. Centrifuge at 1000 g at 4℃ for 3-5 minutes and then discard the supernatant. Wash twice with PBS, 5 minutes each time.The cell density is 1×10^6/mL
b. Add 1 mL of working solution, and then incubate at room temperature for 5-30 minutes.
c. Centrifuge at 400 g at 4℃ for 3-4 minutes and then discard the supernatant.

d. Wash twice with PBS, 5 minutes each time.
e. Resuspend cells with serum-free cell culture medium or PBS.Observation by fluorescence microscopy or flow cytometry.
2.2 Adherent cells
a. Culture adherent cells on sterile coverslips.
b. Remove the coverslip from the medium and aspirate excess medium.
c. Add 100 µL of working solution, gently shake it to completely cover the cells, and then incubate at room temperature for 5-30 minutes.
d. Wash twice with medium, 5 minutes each time. Observation by fluorescence microscopy or flow cytometry.
Storage
-20℃,1 year
Protect from light
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. J E Gale, et al. FM1-43 dye behaves as a permeant blocker of the hair-cell mechanotransducer channel. J Neurosci. 2001 Sep 15;21(18):7013-25.

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