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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

HKGreen-4I

Cat. No.: HY-D1148

CAS No.: 1448821-82-6

Molecular Formula: $C_{36}H_{30}N_2O_{11}$

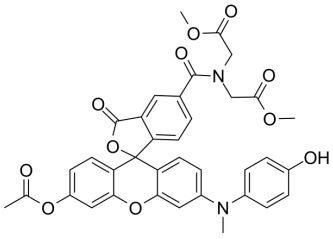
Molecular Weight: 666.63

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 : 40 mg/mL (60.00 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.5001 mL	7.5004 mL	15.0008 mL
	5 mM	0.3000 mL	1.5001 mL	3.0002 mL
	10 mM	0.1500 mL	0.7500 mL	1.5001 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 6 mg/mL (9.00 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 3 mg/mL (4.50 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.75 mg/mL (2.63 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

HKGreen-4I is a highly sensitive green fluorescent probe for the specific detection of $ONOO^-$ in living cells with a maximum excitation wavelength and emission wavelength of 520 nm and 543 nm, respectively[2].

In Vitro

1. Preparation of HKGreen-4I working solution
1.1 Preparation of the stock solution
Dissolve 1 mg HKGreen-4I in 150 µL DMSO to obtain 10 mM of stock solution.
Note: It is recommended to store the stock solution at -20 -80 away from light and avoid repetitive freeze-thaw cycles.
1.2 Preparation of HKGreen-4I working solution
Dilute the stock solution in serum-free cell culture medium or PBS to obtain 1-10 µM of working solution.

Note: Please adjust the concentration of HKGreen-4I 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.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Trends Cell Biol. 2007 Sep;17(9):422-7. doi: 10.1016/j.tcb.2007.07.009. Epub 2007 Sep 4.

[2]. Ye S, et, al. Tandem Payne/Dakin Reaction: A New Strategy for Hydrogen Peroxide Detection and Molecular Imaging. Angew Chem Int Ed Engl. 2018 Aug 6;57(32):10173-10177.

[3]. Yang D, et, al. Diarylamine-based fluorogenic probes for detection of peroxynitrite. US9651528B2.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA