Produktinformation

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

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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![MCE MedChemExpress logo]

Product Data Sheet

HKOH-1

Cat. No.:	HY-D1151
CAS No.:	2031170-96-2
Molecular Formula:	$C_{26}H_{12}Cl_2I_2O_6$
Molecular Weight:	745.08
Target:	Reactive Oxygen Species; Fluorescent Dye
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; 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)
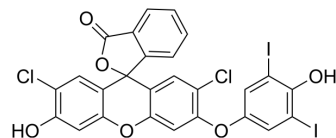
SOLVENT & SOLUBILITY

In Vitro	DMSO : 180 mg/mL (241.58 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.3421 mL	6.7107 mL	13.4214 mL
	5 mM	0.2684 mL	1.3421 mL	2.6843 mL
	10 mM	0.1342 mL	0.6711 mL	1.3421 mL

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

BIOLOGICAL ACTIVITY

Description	HKOH-1 is a highly sensitive green fluorescent probe for the specific detection of ·OH in living cells with a maximum excitation wavelength and emission wavelength of 500 nm and 520 nm, respectively[1].

In Vitro	1. Preparation of HKOH-1 working solution
	1.1 Preparation of the stock solution
	Dissolve 1 mg HKOH-1 in 135 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 HKOH-1 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 HKOH-1 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]. Bai X, et al. HKOH-1: A Highly Sensitive and Selective Fluorescent Probe for Detecting Endogenous Hydroxyl Radicals in Living Cells. Angew Chem Int Ed Engl. 2017 Oct 9;56(42):12873-12877.

[2]. Xiaoyu Bai, et al. HKOH-1: A Highly Sensitive and Selective Fluorescent Probe for Detecting Endogenous Hydroxyl Radicals in Living Cells. Angew Chem Int Ed Engl. 2017 Oct 9;56(42):12873-12877.