



# SZABO SCANDIC

Part of Europa Biosite

## 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

### SZABO-SCANDIC HandelsgmbH

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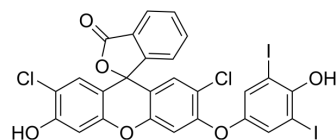
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## HKOH-1

<b>Cat. No.:</b>	HY-D1151
<b>CAS No.:</b>	2031170-96-2
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>12</sub> Cl <sub>2</sub> I <sub>2</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	745.08
<b>Target:</b>	Reactive Oxygen Species; Fluorescent Dye
<b>Pathway:</b>	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Others
<b>Storage:</b>	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)

Concentration	Mass		
	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<sup>[1]</sup>.

#### 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<sup>6</sup>/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  $\mu$ L 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.

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

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