



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

Quellenstraße 110, A-1100 Wien

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

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

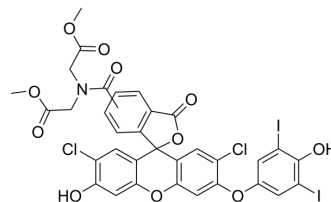
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

HKOH-1r

Cat. No.:	HY-D1159
CAS No.:	2138472-08-7
Molecular Formula:	C ₃₃ H ₂₁ Cl ₂ I ₂ NO ₁₁
Molecular Weight:	938.28
Target:	Reactive Oxygen Species; Fluorescent Dye
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; 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 : 95 mg/mL (101.25 mM; Need ultrasonic)																							
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>1.0658 mL</td> <td>5.3289 mL</td> <td>10.6578 mL</td> </tr> <tr> <td>5 mM</td> <td>0.2132 mL</td> <td>1.0658 mL</td> <td>2.1316 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1066 mL</td> <td>0.5329 mL</td> <td>1.0658 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg						Preparing Stock Solutions	1 mM	1.0658 mL	5.3289 mL	10.6578 mL	5 mM	0.2132 mL	1.0658 mL	2.1316 mL	10 mM	0.1066 mL	0.5329 mL	1.0658 mL
Solvent Concentration	Mass		1 mg	5 mg	10 mg																			
Preparing Stock Solutions	1 mM	1.0658 mL	5.3289 mL	10.6578 mL																				
	5 mM	0.2132 mL	1.0658 mL	2.1316 mL																				
	10 mM	0.1066 mL	0.5329 mL	1.0658 mL																				
	Please refer to the solubility information to select the appropriate solvent.																							
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 4.75 mg/mL (5.06 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 4.75 mg/mL (5.06 mM); Suspended solution; Need ultrasonic 																							

BIOLOGICAL ACTIVITY

Description	HKOH-1r 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	<ol style="list-style-type: none"> Preparation of HKOH-1r working solution <ol style="list-style-type: none"> Preparation of the stock solution Dissolve 1 mg HKOH-1r in 107 μL DMSO to obtain 10 mM of stock solution. Note: It is recommended to store the stock solution at -20°C -80°C away from light and avoid repetitive freeze-thaw cycles. Preparation of HKOH-1r 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-1r working solution according to the actual situation. Cell staining

2.1 Suspension cells (6-well plate)

- a. Centrifuge at 1000 g at 4°C 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°C 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 μ 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.

CUSTOMER VALIDATION

- mSystems. 2023 Dec 4:e0102623.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. 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.
- [2]. 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.

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

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