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

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

HKSOX-1m (5/6-mixture)

Cat. No.: HY-D1156

CAS No.: 1786411-19-5

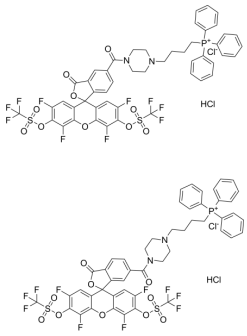
Molecular Formula: $C_{49}H_{37}Cl_2F_{10}N_2O_{10}PS_2$

Molecular Weight: 1169.82

Target: Reactive Oxygen Species; Fluorescent Dye

Pathway: Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 55 mg/mL (47.02 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	0.8548 mL	4.2742 mL	8.5483 mL
	5 mM	0.1710 mL	0.8548 mL	1.7097 mL
	10 mM	0.0855 mL	0.4274 mL	0.8548 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.75 mg/mL (2.35 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

HKSOX-1m (5/6-mixture) is a O_2 fluorescent probe for mitochondria-targeting (Ex/Em=509/534nm; green), exhibiting excellent selectivity and sensitivity toward O_2 over a broad range of pH, strong oxidants, and abundant reductants found in cells[1].

In Vitro

HKSOX-1m (5/6-mixture) (10 μM) sensitively captures signals for basal and Antimycin A (1 μM)-stimulated mitochondrial O_2 in differentiated human THP-1 cells, at very low laser power output (1% intensity at Ex 514 nm on Zeiss LSM 510 Meta)[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jun Jacob Hu, et al. Fluorescent Probe HKSOX-1 for Imaging and Detection of Endogenous Superoxide in Live Cells and In Vivo. J Am Chem Soc . 2015 Jun 3;137(21):6837-43.

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