



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

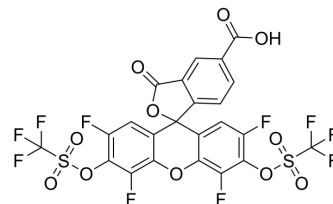
mail@szabo-scandic.com

www.szabo-scandic.com

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

HKSOX-1

Cat. No.:	HY-150175
CAS No.:	1786411-17-3
Molecular Formula:	C ₂₃ H ₆ F ₁₀ O ₁₁ S ₂
Molecular Weight:	712.4
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

HKSOX-1 and its derivatives (HKSOX-1r and HKSOX-1m) are novel fluorescent probes designed for highly sensitive and selective detection of the superoxide anion radical (O₂^{•-}) in cellular environments. These probes utilize an aryl trifluoromethanesulfonate group that undergoes O₂^{•-}-mediated cleavage, releasing a free phenol and emitting fluorescence. They demonstrate excellent specificity and sensitivity across various pH ranges, withstand interference from strong oxidants and reductants typical in cellular contexts. HKSOX-1r, optimized for cellular retention, has been effectively employed in diverse assays including confocal imaging, flow cytometry, and zebrafish embryo studies, highlighting its utility in investigating O₂^{•-} roles in inflammation, mitochondrial stress, and other physiological processes^[1].

REFERENCES

[1]. Fluorescent Probe HKSOX-1 for Imaging and Detection of Endogenous Superoxide in Live Cells and In Vivo

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