



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

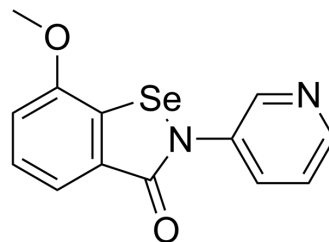
mail@szabo-scandic.com

www.szabo-scandic.com

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

Ebselen derivative 1

Cat. No.:	HY-163506
CAS No.:	3030492-59-9
Molecular Formula:	C ₁₃ H ₁₀ N ₂ O ₂ Se
Molecular Weight:	305.19
Target:	Apoptosis; Ferroptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ebselen derivative 1 (Compound 19) is a glutathione peroxidase (GPx) mimic with oral activity. Ebselen derivative 1 demonstrates significant protective effects against cisplatin (HY-17394)-induced hair cell (HC) damage both in vitro and in vivo, effectively reducing oxidative stress, apoptosis, and ferroptosis in hair cells. Ebselen derivative 1 can be utilized in the research of cisplatin (HY-17394)-induced hearing loss ^[1] .
In Vitro	Ebselen derivative 1 (Compound 19) (100 μM) significantly reduces cisplatin (HY-17394) -induced apoptosis and ferroptosis in hair cells and alleviates the surge of oxidative stress triggered by cisplatin throughout the cochlea ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Ebselen derivative 1 (Compound 19) (80 mg/kg; oral administration; once daily for one week) exhibits hearing protective effects in C57BL/6 mice, mitigating the hair cell loss induced by cisplatin (5 mg/kg; i.p.; administered once on the third and seventh days of Ebselen derivative 1 treatment) (HY-17394) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wang W, et al. Quantum chemistry calculation-aided discovery of potent small-molecule mimics of glutathione peroxidases for the treatment of cisplatin-induced hearing loss. *Eur J Med Chem.* 2024;271:116404.

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