



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

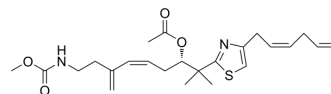
mail@szabo-scandic.com

www.szabo-scandic.com

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

8-OAc

Cat. No.:	HY-162515
CAS No.:	2550395-87-2
Molecular Formula:	C ₂₄ H ₃₄ N ₂ O ₄ S
Molecular Weight:	446.6
Target:	Mitochondrial Metabolism
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	8-OAc is a potent and selective mitochondrial electron transport chain (ETC) complex I inhibitor. 8-OAc exhibits cytotoxicity against cancer cell lines ^[1] .								
In Vitro	<p>8-OAc (5-100 μM; 24 h) could preferentially target cancer cells for the initiation of cell death pathways, while having minimal effects on viability of non-cancer cells. 8-OAc can induce ROS production, leading to cell death in liver cancer cells^[1].</p> <p>8-OAc is able to achieve a mitohormetic effect in <i>C. elegans</i> and prolong longevity in adult worms. 8-OAc requires HSF1 mediate heat shock response (HSR) pathways^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Huh-7 liver carcinoma cells and BJ fibroblast non-cancer cells</td> </tr> <tr> <td>Concentration:</td> <td>5 μM, 10 μM, 50 μM, 100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited Huh-7 and BJ cells with IC₅₀ of 95.97 μM and 248.15 μM, respectively.</td> </tr> </table>	Cell Line:	Huh-7 liver carcinoma cells and BJ fibroblast non-cancer cells	Concentration:	5 μM, 10 μM, 50 μM, 100 μM	Incubation Time:	24 h	Result:	Inhibited Huh-7 and BJ cells with IC ₅₀ of 95.97 μM and 248.15 μM, respectively.
Cell Line:	Huh-7 liver carcinoma cells and BJ fibroblast non-cancer cells								
Concentration:	5 μM, 10 μM, 50 μM, 100 μM								
Incubation Time:	24 h								
Result:	Inhibited Huh-7 and BJ cells with IC ₅₀ of 95.97 μM and 248.15 μM, respectively.								

REFERENCES

[1]. Naibedyia Dutta, et al. Investigating impacts of the mycothiazole chemotype as a chemical probe for the study of mitochondrial function and aging. *Geroscience*. 2024 Apr 3.

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