



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### 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

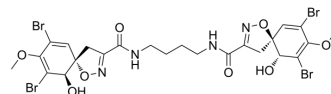
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

## Aerothionin

Cat. No.:	HY-121349
CAS No.:	28714-26-3
Molecular Formula:	C <sub>24</sub> H <sub>26</sub> Br <sub>4</sub> N <sub>4</sub> O <sub>8</sub>
Molecular Weight:	818.1
Target:	Antibiotic; Bacterial; Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Aerothionin is an antibiotic with potent antimicrobial efficacy against bacteria and fungi. Aerothionin exhibits antitumor efficacy against adrenal pheochromocytomas and extra-adrenal paragangliomas (PPGLs) <sup>[1][2]</sup> .								
<b>In Vitro</b>	<p>Aerothionin (0-100 μM, 24h) inhibits proliferations of pheochromocytoma cells MPC and MTT, inhibits the MTT spheroid growth (10 μM, single dose)<sup>[1]</sup>.</p> <p>Aerothionin (0-100 μM, 24h) exhibits toxicity in normal endothelial cells HUVECs, stimulates slightly the viability of normal fibroblasts 3T3<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>MPC, MTT, HUVECs, 3T3</td> </tr> <tr> <td>Concentration:</td> <td>0-100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited proliferations of MPC, MTT and HUVECs, stimulated proliferation of 3T3.</td> </tr> </table>	Cell Line:	MPC, MTT, HUVECs, 3T3	Concentration:	0-100 μM	Incubation Time:	24 h	Result:	Inhibited proliferations of MPC, MTT and HUVECs, stimulated proliferation of 3T3.
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Result:	Inhibited proliferations of MPC, MTT and HUVECs, stimulated proliferation of 3T3.								

### REFERENCES

[1]. Drechsel A, et al., Anti-Tumor Activity vs. Normal Cell Toxicity: Therapeutic Potential of the Bromotyrosines Aerothionin and Homoaerothionin In Vitro. Mar Drugs. 2020 May 1;18(5):236.

[2]. Šimovičová M. Synthesis of aerothionin analogs as potential antimycobacterial agents[J]. 2021.

**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