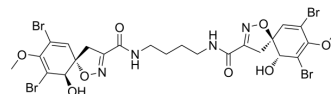


Aerothionin

Cat. No.:	HY-121349
CAS No.:	28714-26-3
Molecular Formula:	C ₂₄ H ₂₆ Br ₄ N ₄ O ₈
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

Description	Aerothionin is an antibiotic with potent antimicrobial efficacy against bacteria and fungi. Aerothionin exhibits antitumor efficacy against adrenal pheochromocytomas and extra-adrenal paragangliomas (PPGLs) ^{[1][2]} .								
In Vitro	<p>Aerothionin (0-100 μM, 24h) inhibits proliferations of pheochromocytoma cells MPC and MTT, inhibits the MTT spheroid growth (10 μM, single dose)^[1].</p> <p>Aerothionin (0-100 μM, 24h) exhibits toxicity in normal endothelial cells HUVECs, stimulates slightly the viability of normal fibroblasts 3T3^[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>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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Concentration:	0-100 μM								
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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 Homoerothionin 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.

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