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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

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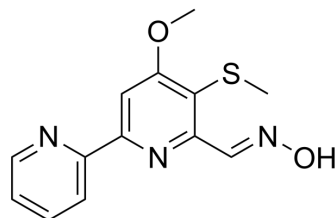
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Collismycin A

Cat. No.:	HY-138185
CAS No.:	158792-24-6
Molecular Formula:	C ₁₃ H ₁₃ N ₃ O ₂ S
Molecular Weight:	275.33
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Collismycin A is a bacterial metabolite originally isolated from *Streptomyces* that has diverse biological activities, including antibacterial, antiproliferative, and neuroprotective properties. It is active against a variety of bacteria (MICs=6.25 and 100 μg/mL) and fungi (MICs=12.5-100 μg/mL). It inhibits proliferation of A549 lung, HCT116 colon, and HeLa cervical cancer cells (IC₅₀s=0.3, 0.6, and 0.3 μM, respectively) and NIH373 fibroblasts (IC₅₀=56.6 μM) but not MDA-MD-231 breast cancer cells (IC₅₀ =>100 μM). Collismycin A forms a complex with Fe(II) and Fe(III) at a 2:1 ratio, and the addition of iron ions inhibits the antiproliferative effect of collismycin A on HeLa cells, an effect that does not occur with the addition of zinc, manganese, copper, or magnesium ions.³ Collismycin A (1 μM) prevents apoptosis in the brain region of zebrafish larvae by 44% in a model of neuronal cell death induced by all-trans retinoic acid.

REFERENCES

[1]. Gomi, et al. Novel antibiotics SF2738A, B and C, and their analogs produced by *Streptomyces* sp. *J. Antibiot.* (Tokyo) 47(12), 1385-1394 (1994).

Caution: Product has not been fully validated for medical applications. For research use only.

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