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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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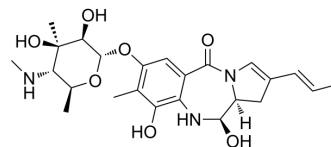
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Sibiromycin

Cat. No.:	HY-N9460
CAS No.:	12684-33-2
Molecular Formula:	C ₂₄ H ₃₃ N ₃ O ₇
Molecular Weight:	475.53
Target:	DNA Alkylator/Crosslinker; Antibiotic
Pathway:	Cell Cycle/DNA Damage; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sibiromycin is a naturally produced glycosylated pyrrolobenzodiazepines (PBDs). Sibiromycin is also a potent antitumor antibiotic that binds covalently to DNA in the minor groove at the NH2 of guanine ^{[1][2]} .
In Vitro	<p>Pyrrolobenzodiazepines (PBDs) are sequence selective DNA alkylating agents with remarkable antineoplastic activity^[1]. Alkylation of DNA by anthramycin, sibiromycin and tomaymycin is sequence specific with the following trend for binding preference 5'-Pu-G-Pu>5'-Py-G-Pu>5'-Pu-G-Py>5'-Py-G-Py^[1].</p> <p>Sibiromycin shows cytotoxicity against L1210 (leukemia), ADJ/PC6 (plasmacytoma) and CH1 (ovarian) cells with IC50s of ranging 0.000017 ~0.0029 μM^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Gerratana B. Biosynthesis, synthesis, and biological activities of pyrrolobenzodiazepines. *Med Res Rev.* 2012;32(2):254-293.

[2]. Li W, et al. Biosynthesis of sibiromycin, a potent antitumor antibiotic. *Appl Environ Microbiol.* 2009;75(9):2869-2878.

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

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