



# SZABO SCANDIC

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- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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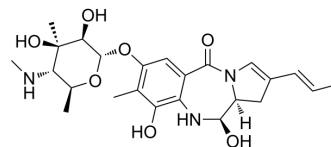
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## Sibiromycin

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



### BIOLOGICAL ACTIVITY

<b>Description</b>	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 <sup>[1][2]</sup> .
<b>In Vitro</b>	<p>Pyrrolobenzodiazepines (PBDs) are sequence selective DNA alkylating agents with remarkable antineoplastic activity<sup>[1]</sup>. Alkylation of DNA by anthramycin, sibiromycin and tomaymycin is sequence specific with the following trend for binding preference 5'-Pu-G-Pu&gt;5'-Py-G-Pu&gt;5'-Pu-G-Py&gt;5'-Py-G-Py<sup>[1]</sup>.</p> <p>Sibiromycin shows cytotoxicity against L1210 (leukemia), ADJ/PC6 (plasmacytoma) and CH1 (ovarian) cells with IC50s of ranging 0.000017 ~0.0029 μM<sup>[1]</sup>.</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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