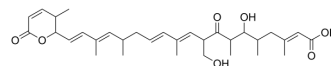


Kazusamycin B

Cat. No.:	HY-118331
CAS No.:	107140-30-7
Molecular Formula:	C ₃₂ H ₄₆ O ₇
Molecular Weight:	542.7
Target:	Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Kazusamycin B is an antibiotic that could be isolated from the fermentation broth of <i>Streptomyces</i> sp. No. 81-484. Kazusamycin B inhibits cell growth and arrests cell cycle at G1 phase. Kazusamycin B can be used in research of cancer ^{[1][2]} .								
In Vitro	<p>Kazusamycin B (PD 124895; 5 ng/mL; 24 h; 1210 cells) has cell cytotoxicity in a time-dependent manner and arrests cell cycle at G1 phase^[2].</p> <p>Kazusamycin B (5-50 ng/mL; 0-6 h; 1210 cells) B inhibits RNA synthesis moderately but specifically at 2 hours^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cycle Analysis^[2]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>1210 cells</td> </tr> <tr> <td>Concentration:</td> <td>5 ng/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Arrested cell cycle at G1 phase at 4 hours.</td> </tr> </table>	Cell Line:	1210 cells	Concentration:	5 ng/mL	Incubation Time:	24 h	Result:	Arrested cell cycle at G1 phase at 4 hours.
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REFERENCES

- [1]. Funaishi K, et, al. Kazusamycin B, a novel antitumor antibiotic. *J Antibiot (Tokyo)*. 1987 Jun;40(6):778-85.
- [2]. Funaishi K, et, al. Kazusamycin B, a novel antitumor antibiotic. *J Antibiot (Tokyo)*. 1987 Jun;40(6):778-85.
- [3]. Takamiya K, et, al. The effect of kazusamycin B on the cell cycle and morphology of cultured L1210 cells. *J Antibiot (Tokyo)*. 1988 Dec;41(12):1854-61.

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

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