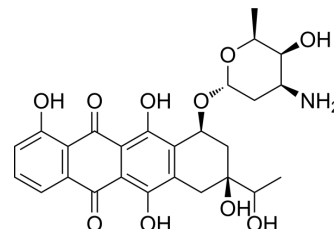


13-Dihydrocarminomycin

Cat. No.:	HY-135176
CAS No.:	62182-86-9
Molecular Formula:	C ₂₆ H ₂₉ NO ₁₀
Molecular Weight:	515.51
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	13-Dihydrocarminomycin (compound D788-12) is the major metabolite of the antitumor antibiotic Carminomycin (HY-B2171). 13-Dihydrocarminomycin has weak antitumor activity ^{[1][2]} .									
In Vitro	<p>13-Dihydrocarminomycin (compound D788-12; 0-1 mM; 48 h) inhibits the growth of L1210 cells, with an IC₅₀ value of 0.06 µg/mL (120 µM)^[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>L1210 cells</td> </tr> <tr> <td>Concentration:</td> <td>0-1 mM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Suppressed cell growth (IC₅₀ = 0.06 µg/mL or 120 µM).</td> </tr> </table>		Cell Line:	L1210 cells	Concentration:	0-1 mM	Incubation Time:	48 h	Result:	Suppressed cell growth (IC ₅₀ = 0.06 µg/mL or 120 µM).
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REFERENCES

[1]. Yoshimoto A, et al. Anthracycline metabolites from baumycin-producing *Streptomyces* sp. D788. II. New anthracycline metabolites produced by a blocked mutant strain RPM-5. *J Antibiot (Tokyo)*. 1993 Jan;46(1):56-64.

[2]. Potesnykh AV, et al. Determination of carminomycin and its basic metabolite 13-dihydrocarminomycin by a highly efficient liquid chromatographic method with a fluorescent detector. *Antibiotiki*. 1982 Nov;27(11):820-3.

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

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