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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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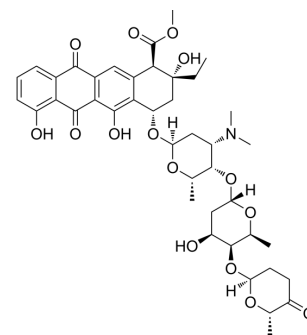
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Aclacinomycin A (Standard)

Cat. No.:	HY-N2306R
CAS No.:	57576-44-0
Molecular Formula:	C ₄₂ H ₅₃ NO ₁₅
Molecular Weight:	811.87
Target:	Topoisomerase; DNA/RNA Synthesis; Proteasome; Antibiotic
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Aclacinomycin A (Standard) is the analytical standard of Aclacinomycin A. This product is intended for research and analytical applications. Aclacinomycin A (Aclarubicin) is an orally active and potent anthracycline antitumor antibiotic. Aclacinomycin A is an inhibitor of topoisomerase I and II. Aclacinomycin A inhibits synthesis of nucleic acid, especially RNA. Aclacinomycin A might inhibit the 26S protease complex as well as the ubiquitin-ATP-dependent proteolysis^{[1][2][3]}.

REFERENCES

- [1]. Isoe T, et al. Inhibition of different steps of the ubiquitin system by CDDP and aclarubicin. *Biochim Biophys Acta*. 1992 Sep 15;1117(2):131-5.
- [2]. Hajji N, et al. Induction of genotoxic and cytotoxic damage by aclarubicin, a dual topoisomerase inhibitor. *Mutat Res*. 2005 May 2;583(1):26-35.
- [3]. Iihoshi H, et al. Aclarubicin, an anthracycline anti-cancer drug, fluorescently contrasts mitochondria and reduces the oxygen consumption rate in living human cells. *Toxicol Lett*. 2017 Aug 5;277:109-114.
- [4]. Hori S, Shirai M, Hirano S, Oki T, Inui T, Tsukagoshi S, Ishizuka M, Takeuchi T, Umezawa H. Antitumor activity of new anthracycline antibiotics, aclacinomycin-A and its analogs, and their toxicity. *Gan*. 1977 Oct;68(5):685-90.

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

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