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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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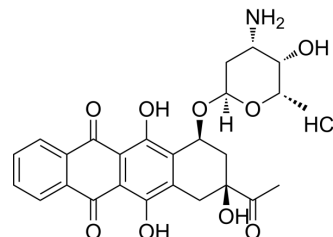
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Idarubicin hydrochloride (Standard)

Cat. No.:	HY-17381R
CAS No.:	57852-57-0
Molecular Formula:	C ₂₆ H ₂₈ ClNO ₉
Molecular Weight:	533.95
Target:	Autophagy; Antibiotic; Topoisomerase; Bacterial; Fungal; DNA/RNA Synthesis; c-Myc
Pathway:	Autophagy; Anti-infection; Cell Cycle/DNA Damage; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Idarubicin (hydrochloride) (Standard) is the analytical standard of Idarubicin (hydrochloride). This product is intended for research and analytical applications. Idarubicin hydrochloride is an anthracycline antileukemic agent. It inhibits the topoisomerase II interfering with the replication of DNA and RNA transcription. Idarubicin hydrochloride inhibits the growth of bacteria and yeasts.
IC₅₀ & Target	DNA topoisomerase II ^[1]

REFERENCES

- [1]. Orlandi P, et al. Idarubicin and idarubicinol effects on breast cancer multicellular spheroids. *J Chemother.* 2005 Dec;17(6):663-7.
- [2]. Robert J. Clinical pharmacokinetics of idarubicin. *Clin Pharmacokinet.* 1993 Apr;24(4):275-88.
- [3]. Siegsmond MJ, et al. Enhanced in vitro cytotoxicity of idarubicin compared to epirubicin and doxorubicin in rat prostate carcinoma cells. *Eur Urol.* 1997;31(3):365-70.
- [4]. Gewirtz DA, et al. Induction of DNA damage, inhibition of DNA synthesis and suppression of c-myc expression by the anthracycline analog, idarubicin (4-demethoxy-daunorubicin) in the MCF-7 breast tumor cell line. *Cancer Chemother Pharmacol.* 1998;41(5):361-
- [5]. Kinnunen U, et al. Idarubicin inhibits the growth of bacteria and yeasts in an automated blood culture system. *Eur J Clin Microbiol Infect Dis.* 2009 Mar;28(3):301-3.

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

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