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Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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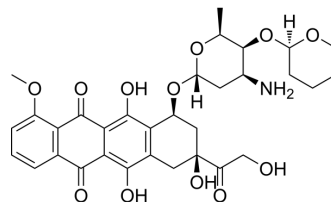
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Pirarubicin (Standard)

Cat. No.:	HY-13725R
CAS No.:	72496-41-4
Molecular Formula:	C ₃₂ H ₃₇ NO ₁₂
Molecular Weight:	627.64
Target:	Topoisomerase; Autophagy; Bacterial; Antibiotic
Pathway:	Cell Cycle/DNA Damage; Autophagy; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pirarubicin (Standard) is the analytical standard of Pirarubicin. This product is intended for research and analytical applications. Pirarubicin is an anthracycline antibiotics, acts as a topoisomerase II inhibitor, and is a widely used for treatment of various cancers, in particular, solid tumors.
IC₅₀ & Target	Topoisomerase II ^[1]

REFERENCES

- [1]. Takigawa N, et al. Cytotoxic effect of topoisomerase II inhibitors against adriamycin- and etoposide-resistant small cell lung cancer sublines. *Gan To Kagaku Ryoho*. 1993 May;20(7):929-35.
- [2]. Nagai K, et al. Relationships between the in vitro cytotoxicity and transport characteristics of pirarubicin and doxorubicin in M5076 ovarian sarcoma cells, and comparison with those in Ehrlich ascites carcinoma cells. *Cancer Chemother Pharmacol*. 2002 Mar;49(3):244-50. Epub 2002 Jan 8.
- [3]. Li K, et al. Pirarubicin induces an autophagic cytoprotective response through suppression of the mammalian target of rapamycin signaling pathway in human bladder cancer cells. *Biochem Biophys Res Commun*. 2015 May 1;460(2):380-5.
- [4]. Wang YD, et al. Cardioprotective effects of rutin in rats exposed to pirarubicin toxicity. *J Asian Nat Prod Res*. 2017 Oct 27:1-13.

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

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