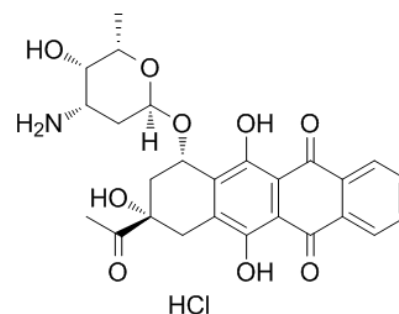


Product Name : Idarubicin hydrochloride
Cat. No. : PC-45203
CAS No. : 57852-57-0
Molecular Formula : C₂₆H₂₈ClNO₉
Molecular Weight : 533.9548
Target : Topoisomerase
Solubility : 10 mM in DMSO



Biological Activity

Idarubicin hydrochloride (4-Demethoxydaunorubicin) is an anthracycline antileukemic that inserts into DNA and prevents DNA unwinding by interfering with the enzyme **Topoisomerase II** in cancer cells. Idarubicin inhibits the proliferation of MCF-7 cells with IC₅₀ of 0.1 μM. Idarubicin also induces histone eviction from chromatin.

References

- Gewirtz DA, et al. *Cancer Chemother Pharmacol.* 1998;41(5):361-9.
Pang B, et al. *Nat Commun.* 2013;4:1908.
Nitiss JL. *Nat Rev Cancer.* 2009 May;9(5):338-50.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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