

Product Name : Idarubicin hydrochloride

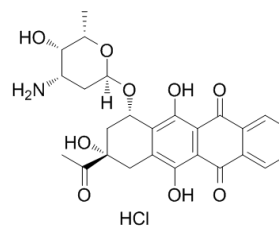
Synonyms : 4-Demethoxydaunorubicin hydrochloride

Cat No. : M15119

CAS Number : 57852-57-0

Molecular Formula : C₂₆H₂₈ClNO₉

Formula Weight : 533.95



Chemical Name : 5,12-Naphthacenedione, 9-acetyl-7-[(3-amino-2,3,6-trideoxy-α-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,9,11-trihydroxy-, hydrochloride (1:1), (7S,9S)-

Description : An anthracycline antileukemic that inserts into DNA and prevents DNA unwinding by interfering with the enzyme Topoisomerase II in cancer cells; inhibits the proliferation of MCF-7 cells with IC₅₀ of 0.1 μM; also induces histone eviction from chromatin. Chemotherapeutic Agents Approved

Pathway : Cell Cycle/DNA Damage

Target : Topoisomerase

Receptor : Multicellular spheroids; Topo II (MCF-7 cells)

Solubility : 10 mM in DMSO

SMILES : O=C1C2=C(O)C([C@@H](O[C@@H]3C[C@H](N)[C@H](O)[C@H](C)O3)C[C@](O)(C(C)=O)C4=C(O)C(=C2)C(C5=C1C=CC=C5)=O.[H]Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Gewirtz DA, et al. Cancer Chemother Pharmacol. 1998;41(5):361-9. 2. Pang B, et al. Nat Commun. 2013;4:1908. 3. Nitiss JL. Nat Rev Cancer. 2009 May;9(5):338-50.