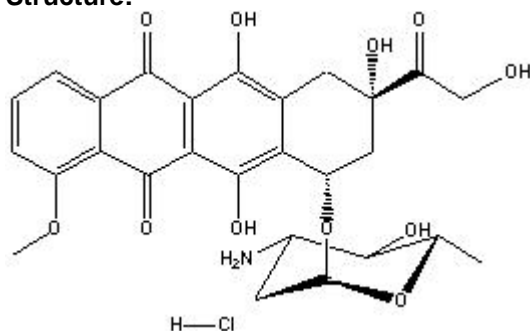


## TECHNICAL INFORMATION

Catalog Number: 159101

### Doxorubicin hydrochloride

#### Structure:



**Molecular Formula:** C<sub>27</sub>H<sub>29</sub>NO<sub>11</sub> · HCl

**Molecular Weight:** 580

**CAS #** 25316-40-9

**Synonyms:** Adriamycin; 14-Hydroxydaunomycin hydrochloride; 10-[(3-Amino-2,3,6-trideoxy-a-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-8-(hydroxyacetyl) hydrochloride

**Physical Description:** Reddish-Orange crystalline powder

**Description:** Chemotherapeutic agent. Antitumor, immunosuppressive, and antibiotic agent. Blocks RNA polymerase and reverse transcriptase. Also inhibits nucleic acid synthesis. Apoptosis inducer.

**Fluorescence:** Em<sub>max</sub>: 585 nm (Exc.: 470 nm in ethanol).

**Solubility:** Soluble in water (> 10 mg/ml), in isotonic sodium chloride, methanol, aqueous alcohols, DMSO (> 10 mg/ml); practically insoluble in chloroform, ether, and other organic solvents.

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