

Doxorubicin HCl

Cat. # F8110 F8111

- Also Known as:** 10-[(3-Amino-2,3,6-trideoxy- α -L-lyxohexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-8-(hydroxyacetyl)-5,12-naphthacenedione hydrochloride
- Formula:** $C_{27}H_{29}NO_{11} \cdot HCl$
- MW:** 579.99 Da
- CAS No.:** 25316-40-9
- Source:** Synthetic
- Form:** Lyophilized powder
- Solubility:** Soluble in water (~10 mg/mL) or DMSO (~100 mg/mL)
- Concentration:** N.A
- Quality Assurance:** >98% by HPLC and NMR
- Description:** Doxorubicin is an anthracycline antitumor antibiotic that induces DNA damage by intercalating into DNA and inhibiting topoisomerase II. Doxorubicin binds covalently to DNA and inhibits reverse transcriptase, RNA polymerase and the catalytic activity of Dnmt1.
- Storage:** Eligible for room temperature shipping. Store at -20°C upon receiving; protect from air and light
- How to Use** Doxorubicin hydrochloride was used at 1-1,000 nM in various cell-based assays.
- Literature:**
1. Taatjes DJ, et al. (1996) J. Med. Chem. 39: 4135-4138.
 2. Pourquier P, et al. (1998) Biochem. Pharmacol. 55: 1963-1971.
 3. Zeman SM, et al. (1998) Proc. Natl. Acad. Sci. U.S.A. 95: 11561-11565.
 4. Sun W, et al. (2009) Cancer Res. 69(10): 4294-4300.
 5. Granados-Principal S, et al. (2010) Food Chem Toxicol 48(6): 1425-1438.

