

**DATA SHEET**

**Product Name:** Daunorubicin HCl

**Catalog #:** CV-1022

**Alt:** CAS # 23541-50-6; Daunomycin; rubidomycin; RP-13057

**Molecular Mass:** 564.0

**Analysis:** >95% (TLC); NMR (conforms)

**Supplied As:** Red powder

**Resuspension:** May be dissolved in water (25 mg/ml)

**Storage:** Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 3 months.

**Description:** Antitumor antibiotic used in the treatment of acute myeloid leukemias<sup>1</sup>. Induces DNA damage by intercalation<sup>2</sup>. Induces apoptosis in a variety of cell lines<sup>3</sup>. Inhibition of autophagy with chloroquine enhances daunorubicin-induced apoptosis in K562 cells<sup>4</sup>. Cell permeable.

**References:**

1. Laurent, G., and Jaffrezou, J.P., (2001) Blood, 98 : 913
2. Yang, F., et al., (2014) Biochim. Biophys. Acta, 1845 : 84
3. Masquelier, M., et al., (2004) Biochem. Pharmacol., 67 : 1047
4. Han, W., et al., (2011) PLoS One, 6 : e28491

***For research use only. Not for use in humans.***