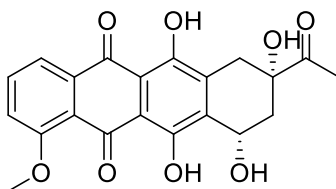


Daunomycinone

Code No.: **BIA-D2310**

Pack sizes: **1 mg, 5 mg**



Synonyms : (+)-Daunomycinone, Daunomycin aglicone, Daunomycinon, Daunorubicin aglycone, Daunorubicinone, Leukaemomycinone C, NSC 109351

Specifications

CAS #	: 21794-55-8
Molecular Formula	: C₂₁H₁₈O₈
Molecular Weight	: 398.36
Source	: Semi-synthetic
Appearance	: Red solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Daunomycinone (daunorubicinone) is the aglycone precursor of daunomycin, an anthracycline antitumor agent. Daunomycinone has been used as the scaffold for developing new anthracyclines. Daunomycinone is active against tumor cell lines, L1210 and P388 (ED50 8.9 and 21.6 µg/mL, respectively) but inactive against KB cell line.

References

1. Daunomycin. I. The structure of daunomycinone. Arcamone F. et al. J Am Chem So. 1964, 86, 5334.
2. Synthesis and antitumor activity of sugar-ring hydroxyl analogues of daunorubicin. Fuchs E.F. et al. J Med Chem. 1979, 22, 46.
3. Synthesis and biological activity of (7S)-O-epoxyalkyl derivatives of daunomycinone. Prikrylova V. et al. J Antibiot. 1985, 38, 1714.
4. Maggiemycin and anhydromaggiemycin: Two novel anthracycline antitumor antibiotics. Isolation, structures, partial synthesis and biological properties. J Antibiot. 1989, XLII, 1567.