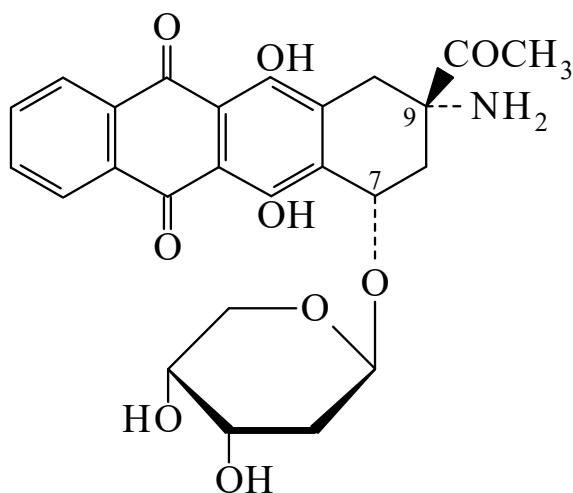




>>Entry Name: Amrubicin, INN

Synonym(s): 9-Amino-4-demethoxy-9-deoxy-7-*O*-(2-deoxy-β-D-*erythro*-pentopyranosyl)daunomycinone. SM 5887



CAS Registry Number: 110267-81-7

Related CAS Registry Numbers(s): 123930-64-3

Molecular Formula: C₂₅H₂₅NO₉

Molecular Weight: 483.474

Accurate Mass: 483.152934

Percentage Composition: C 62.11%; H 5.21%; N 2.90%; O 29.78%

Use/Importance: Antineoplastic antibiotic

Development Status: In Phase I or II clin. trials (Japan, 1994)

Melting Point: Mp 172-174°

Optical Rotation: $[\alpha]_D^{20} +119$ (c, 0.02 in CHCl₃)

Calculated Log P Data: Log P -1.73 (uncertain value) (calc)

>>Derivative: Hydrochloride

CAS Registry Number: 110311-30-3

Melting Point: Mp 145-151°

Hazard & Toxicity: LD₅₀ (mus, ivn) 42 mg/kg

References:

Ishizumi, K. *et al.*, *J.O.C.*, 1987, **52**, 4477, (*synth, ir, pmr*)

U.S. Pat., 1987, *Sumitomo*, 4 673 668; *CA*, **108**, 22206x, (*synth, activity*)

Oke, Y. *et al.*, *Cancer Res.*, 1989, **49**, 4098, (*pharmacol*)

Horikoshi, N. *et al.*, *Invest. New Drugs*, 1989, **7**, 213, (*pharmacol*)