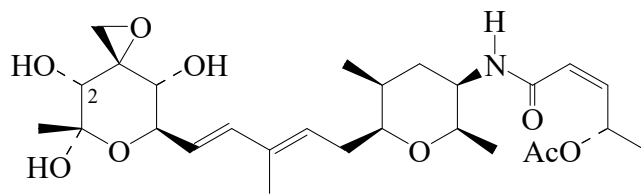




**>>Entry Name: Antibiotic FR 901465**

**Synonym(s):** WB 2663C. Antibiotic WB 2663C. FR 901465



**CAS Registry Number:** 146478-73-1

**Molecular Formula:** C<sub>27</sub>H<sub>41</sub>NO<sub>9</sub>

**Molecular Weight:** 523.622

**Accurate Mass:** 523.278134

**Percentage Composition:** C 61.93%; H 7.89%; N 2.67%; O 27.50%

**Biological Source:** Prod. by *Pseudomonas* sp. No. 2663

**Biological Use/Importance:** Antitumour agent

**Physical Description:** Powder

**Melting Point:** Mp 86-91°

**Optical Rotation:**  $[\alpha]_D^{23} -9$  (c, 0.5 in CH<sub>2</sub>Cl<sub>2</sub>)

**Solubility:** BERDY SOL: Sol. Me<sub>2</sub>CO, EtOAc, CHCl<sub>3</sub>; fairly sol. H<sub>2</sub>O; poorly sol. hexane

**UV:** [neutral]  $\lambda_{\max}$  235 ( $\epsilon$  29000) (MeCN) [neutral]  $\lambda_{\max}$  235 ( $\epsilon$  29000) (MeCN) (Berdy)

**Hazard & Toxicity:** BERDY HAZD : LD<sub>50</sub> (mus, ipr) 10 mg/kg

**>>Derivative: 2-Deoxy**

**Synonym(s):** WB 2663B. Antibiotic WB 2663B. Antibiotic FR 901464. FR 901464

**CAS Registry Number:** 146478-72-0

**Molecular Formula:** C<sub>27</sub>H<sub>41</sub>NO<sub>8</sub>

**Molecular Weight:** 507.623

**Accurate Mass:** 507.283219

**Percentage Composition:** C 63.89%; H 8.14%; N 2.76%; O 25.21%

**Biological Source:** From *Pseudomonas* sp. No. 2663

**Biological Use/Importance:** Antitumour agent

**Physical Description:** Powder

**Melting Point:** Mp 65-70°

**Optical Rotation:**  $[\alpha]_D^{23} -12$  (c, 0.5 in CH<sub>2</sub>Cl<sub>2</sub>)

**Solubility:** BERDY SOL: Sol. Me<sub>2</sub>CO, CHCl<sub>3</sub>, EtOAc; fairly sol. H<sub>2</sub>O; poorly sol. hexane

**UV:** [neutral]  $\lambda_{\max}$  235 ( $\epsilon$  30500) (MeCN) [neutral]  $\lambda_{\max}$  235 ( $\epsilon$  30500) (MeCN) (Berdy)

**Hazard & Toxicity:** BERDY HAZD : LD<sub>50</sub> (mus, ipr) 10 mg/kg

**References:**

Nakajima, H. *et al.*, *J. Antibiot.*, 1996, **49**, 1196-1203; 1204-1211; 1997, **50**, 96-99, (*isol, ur, ir, pmr, cmr*)

Thompson, C.F. *et al.*, *J.A.C.S.*, 2000, **122**, 10482-10483, (*FR 901464, synth*)

Horigome, M. *et al.*, *Tet. Lett.*, 2001, **42**, 8207-8210, (*FR 901464, synth*)