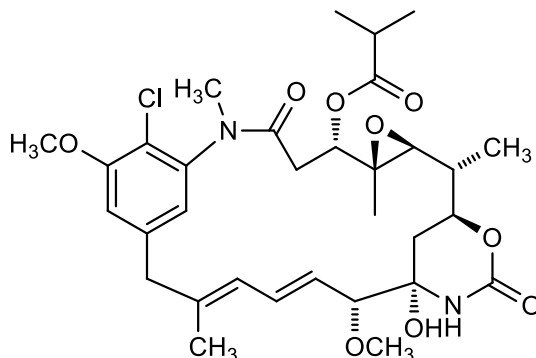


**Catalog # 10-2199**

**Ansamitocin P-3**

CAS# 66547-09-9

Lot # X101618



Fungal metabolite from *Actinosynnema pretiosum* which binds to the phomopsin A/rhizoxin site on tubulin.<sup>1,2</sup> Ansamitocin P3 is a maytansine analog which displays potent cytotoxicity against various human tumor cell lines<sup>2,3</sup>. Maytansine and its analogs cause extensive disassembly of microtubules and totally prevent tubulin spiralization.<sup>4</sup>

- 1) Li et al (1992) *Binding selectivity of rhizoxin, phomopsin A, vinblastine and ansamitocin P-3 to fungal tubulins: differential interactions of these antimitotic agents with brain and fungal tubulins*; Biochem, Biophys.Res.Comm., **187** 722
- 2) Venghateri et al. (2013) *Ansamitocin P3 Depolymerizes Microtubules and Induces Apoptosis by Binding Tubulin at the Vinblastine Site*; PLoS ONE **8** e75182
- 3) Suwanborirux et al. (1990) *Ansamitocin P-3, a maytansinoid, from claopodium crispifolium and anomodo attenuates or associated actinomycetes*; Experientia **46** 117
- 4) Ootsu et al. (1980) *Effects of new antimitotic antibiotics, ansamitocins, on the growth of murine tumors in vivo and on the assembly of microtubules in vitro*; Cancer Res. **40** 1707

#### PHYSICAL DATA

Molecular Weight:	635.16
Molecular Formula:	C <sub>32</sub> H <sub>43</sub> ClN <sub>2</sub> O <sub>9</sub>
Purity:	>90% remainder P-1, P-2, P-4 isomers (TLC: 1:9 CH <sub>3</sub> OH:CH <sub>2</sub> Cl <sub>2</sub> R <sub>f</sub> =0.54); NMR conforms
Solubility:	May be dissolved in DMSO (50 mg/ml); or ethanol (30 mg/ml, warm)
Physical Description:	White powder
Storage and Stability:	Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 2 months

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**