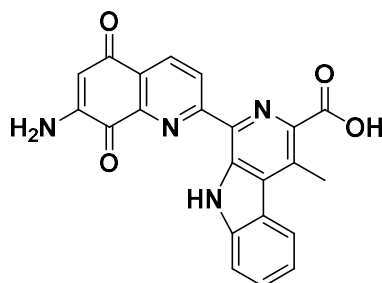


PRODUCT DATA SHEET

Lavendamycin (Antibacterial, Antitumor)



Specifications

Code No.	: 16734
CAS#	: 81645-09-2
Molecular Formula	: C ₂₂ H ₁₄ N ₄ O ₄
Molecular Weight	: 398.378
Source	: <i>Actinoplanes</i> sp.
Supplied as	: Powder
Purity	: >90 % (HPLC)
Long Term Storage	: at -20 °C
Solubility	: Soluble in DMSO

The chemical structure was confirmed by NMR and HRMS.

Application Notes

Lavendamycin was isolated from fermentation broth of *Streptomyces lavendulae* C-22,030.¹⁾ It had significant antimicrobial and antitumor activities.¹⁾ Further development of lavendamycin as an anticancer agent was halted because of the poor aqueous solubility. Therefore, the synthesis and activity of lavendamycin analogues were studied.²⁻⁴⁾

References

- 1) Isolation of lavendamycin. a new antibiotic from *streptomyces lavendulae*. Balitz D M, *et al. J Antibiot.* 1982 **35**(3) 259-265.
- 2) Characterization of cytotoxic activities of novel analogues of the antitumor agent, lavendamycin. Fang Y, *et al. Mol Cancer Ther.* 2003 **2**(6) 517-526.
- 3) Novel lavendamycin analogues as antitumor agents: synthesis, in vitro cytotoxicity, structure-metabolism, and computational molecular modeling studies with NAD(P)H: quinone oxidoreductase 1. Hassani M, *et al. J Med Chem.* 2005 **48**(24) 7733-7749.
- 4) Total synthesis of novel 6-substituted lavendamycin antitumor agents. Seradj H, *et al. Org Lett.* 2004 **6**(4) 473-476.