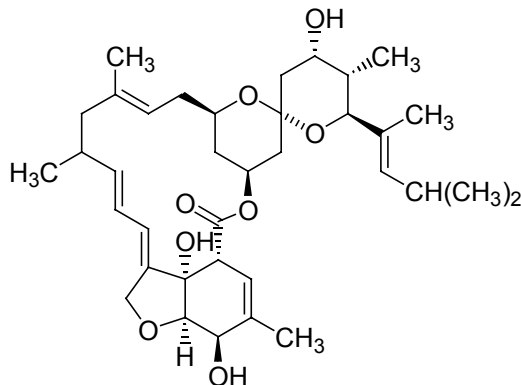


## Nemadectin

Code: **BIA-N1056**

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



Synonyms : **Antibiotic S541A, Antibiotic LL-F28249 $\alpha$**

### Specifications

CAS # : **102130-84-7**  
Molecular Formula : **C<sub>36</sub>H<sub>52</sub>O<sub>8</sub>**  
Molecular Weight : **612.8**  
Source : ***Streptomyces* sp. AS5351**  
Appearance : **White solid**  
Purity : **> 95% by HPLC**  
Long Term Storage : **-20°C**  
Solubility : **Soluble in ethanol, methanol, DMF or DMSO**

### Application Notes

Nemadectin is the dominant member of a class of milbemycins bearing unsaturated longer chain groups at the 25-position. Nemadectin shows pronounced nematocidal and insecticidal activity. Nemadectin is the starting material for moxidectin, a commercial anthelmintic.

### References

1. LL-F28249 antibiotic complex: a new family of antiparasitic macrocyclic lactones. Isolation, characterization and structures of LL-F28249 alpha, beta, gamma, lambda. Carter G.T. et al. *J Antibiot.* **1988**, 41, 519.
2. Efficacy of nemadectin, a new broad-spectrum endectocide, against natural infections of canine gastrointestinal helminths. Doscher M.E. et al. *Vet Parasitol.* **1989**, 34, 255.