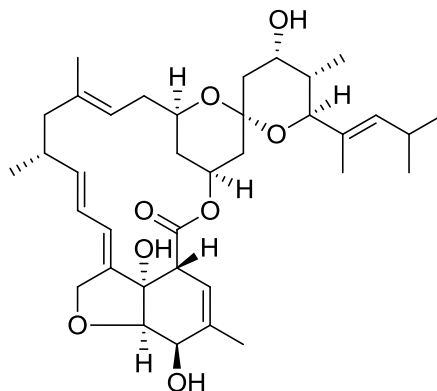


## Nemadectin

Code No.: **BIA-N1056**

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



Synonyms : S541A, LL-F28249 alpha

## Specifications

CAS #	: 102130-84-7
Molecular Formula	: $C_{36}H_{52}O_8$
Molecular Weight	: 612.8
Source	: <i>Streptomyces</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

## 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.