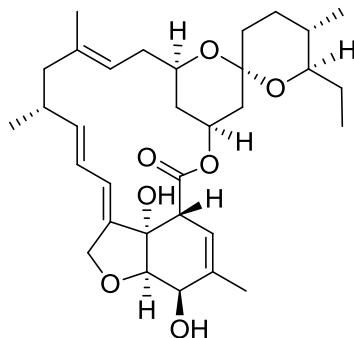


Milbemycin A4

Code No.: **BIA-M1052**

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



Synonyms : B 41A4, Milbemycin alpha3, Milbemectin A4

Specifications

CAS #	: 51596-11-3
Molecular Formula	: C ₃₂ H ₄₆ O ₇
Molecular Weight	: 542.7
Source	: <i>Streptomyces hygroscopicus subsp. aureolacrimosus</i>
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

Milbemycins are a complex family of macrocyclic lactones containing a highly characteristic spiroketal group, produced by *Streptomyces hygroscopicus subsp. aureolacrimosus*. Milbemycin A4 is the dominant member of a group of analogues containing a 25-ethyl substituent. Milbemycin A4 is a highly selective and potent nematocide and insecticide. Like the closely related avermectins, milbemycins are thought to act by opening glutamate sensitive chloride channels.

References

1. Milbemycins, a new family of macrolide antibiotics: fermentation, isolation and physico-chemical properties. Takiguchi Y. et al., J Antibiot. 1980, 33, 1120.
2. Milbemycins, a new family of macrolide antibiotics: producing organism and its mutants. Okazaki T. et al., J Antibiot. 1983, 36, 438.