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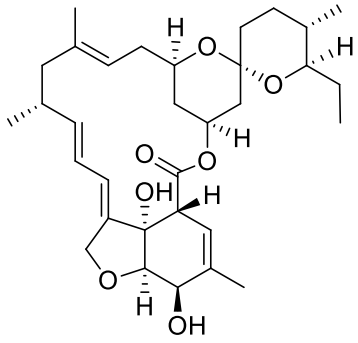
PRODUCT DATA SHEET

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	:	***Streptomyces hygroscopicus* subsp. *aureolacrimosus***
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, DMSO. Poor water solubility.**

Application Notes

Milbemycins are a complex family of macrocyclic lactones containing a highly characteristic spiroketal group, produced by Streptomyces hydroscopicus subsp. aureolarcrimosus. 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.

For in vitro laboratory use only. Not for human or animal use.

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