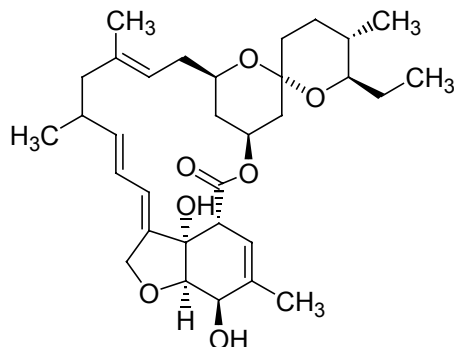


Milbemycin A4

Code: **BIA-M1052**

Pack sizes: **1.0 mg, 5.0 mg**



Synonyms : **Antibiotic B 41A4, Milbemycin α 3**

Specifications

CAS # : **51596-11-3**
Molecular Formula : **C₃₂H₄₆O₇**
Molecular Weight : **542.3**
Source : ***Streptomyces hygroscopicus* subsp. *aureolacrimosus* MST-AS4496**
Appearance : **White Lyophilisate**
Purity : **> 95% by HPLC**
Long Term Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO.**

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 an ethyl substituent at C-25. Milbemycin A4 is a highly selective and potent nematocide and insecticide. Like the closely related avermectins, milbemycins are thought to act on chloride-gated ion 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.