

Milbemycin A4 PRODUCT DATA SHEET

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Product Name: Milbemycin A4

Product Number: M059

CAS Number: 51596-11-3 **Molecular Formula:**

Molecular Weight: 542.3

Appearance: White solid

Storage Conditions: -20°C

Description: Milbemycins are a complex family of macrocyclic lactones containing a highly

> characteristic spiroketal group, produced by Streptomyces hydroscopicus subsp. aureolarcrimosus. Milbernycin 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.

Milbemycin A4 is soluble in ethanol, methanol, DMF or DMSO. Poor water

solubility.

C₃₂H₄₆O₇

Mechanism of Action: Like the closely related avermectins, milbemycins are thought to act by

opening glutamate sensitive chloride channels.

References: Milbemycins, a new family of macrolide antibiotics: fermentation, isolation and

physico-chemical properties. Takiguchi Y. et al. J Antibiot. 1980, 33, 1120.

Milbemycins, a new family of macrolide antibiotics: producing organism and its

mutants. Okazaki T. et al. J Antibiot. 1983, 36, 438.

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