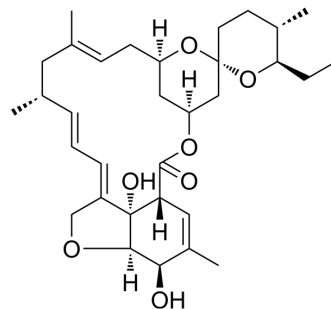


## Milbemycin A4

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-126906                                                                                 |
| CAS No.:           | 51596-11-3                                                                                |
| Molecular Formula: | C <sub>32</sub> H <sub>46</sub> O <sub>7</sub>                                            |
| Molecular Weight:  | 542.7                                                                                     |
| Target:            | P-glycoprotein; Antibiotic                                                                |
| Pathway:           | Membrane Transporter/Ion Channel; Anti-infection                                          |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

#### Description

Milbemycin A4 inhibits P-glycoprotein activity, and reverses multidrug resistance of tumor cells. Milbemycins are a family of macrolide antibiotics with insecticidal and acaricidal activity<sup>[1]</sup>sup>[2].

### REFERENCES

[1]. Li J, et al. Isolation and identification of new macrocyclic lactones from a genetically engineered strain *Streptomyces bingchenggensis* BCJ60. *J Antibiot (Tokyo)*. 2017 Mar;70(3):297-300.

[2]. Takiguchi Y, et al. Milbemycins, a new family of macrolide antibiotics: fermentation, isolation and physico-chemical properties. *J Antibiot (Tokyo)*. 1980 Oct;33(10):1120-7.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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