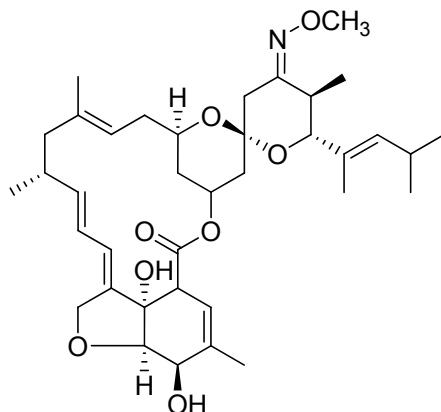


Moxidectin

Code: **BIA-M1298**

Pack sizes: **5 mg, 25 mg**



Synonyms : **Cydectin, CL 301,423**

Specifications

CAS # : **113507-06-5**
Molecular Formula : **C₃₇H₅₃NO₈**
Molecular Weight : **639.8**
Source : **Semi-synthetic**
Appearance : **White solid**
Purity : **>95%**
Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

Application Notes

Moxidectin is a semi-synthetic milbemycin derived from nemadectin by selective oxidation followed by methyloximation. Moxidectin was patented in 1991 as an anthelmintic for internal parasite control. The presence of the methyloxime affords moxidectin a greater hydrophobicity and longer biological half-life compared to nemadectin. It binds selectively to parasite glutamate-gated chloride ion channels and disrupts neurotransmission leading to paralysis and death of the parasite.

References

1. Process for the preparation of 23-(C1-C6 alkyloxime)-LL-F28249 compounds. Maulding D. R & Kumar A. US Patent 4,988,824 (1991).
2. Moxidectin: a review of chemistry, pharmacokinetics and use in horses. Cobb R. & Boeckh. A. Parasites and Vectors 2009, 2 (Suppl 2) S5.