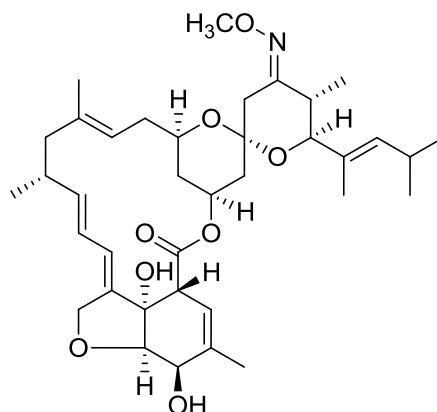


Moxidectin

Code No.: **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% by HPLC
Long Term 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. Moxidectin 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.