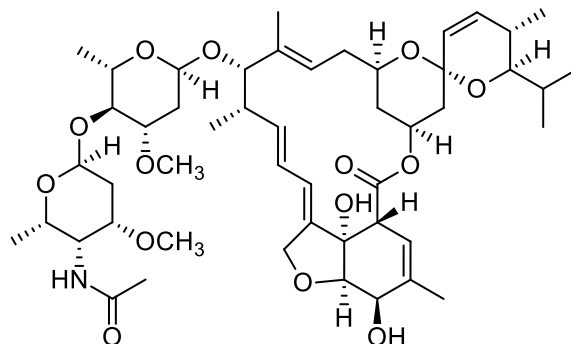


Eprinomectin B1b

Code No.: **BIA-E1548**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms :

Specifications

CAS #	: 133305-89-2
Molecular Formula	: C₄₉H₇₃NO₁₄
Molecular Weight	: 900.1
Source	: Semi-synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Eprinomectin B1b is a semi-synthetic analogue of avermectin B1b prepared by oxidation of the 4"-hydroxy moiety and reductive amination followed by acetylation. Eprinomectin B1b is the minor component (<10%) of the commercial product for endo- and exo-parasite control, eprinomectin. Members of the avermectin/milbemycin class exert their anthelmintic effects by binding to glutamate-gated chloride channels expressed on nematode neurones and pharyngeal muscle cells. The avermectins and milbemycins are also potent insecticides and acaricides.

References

1. 4-Keto- and 4-amino-4-deoxy avermectin compounds and substituted amino derivatives thereof. Mrozik H.H. et al., 1984 US Patent 4,427,663.
2. Synthesis of 4"-*epi*-amino-4"-deoxyavermectins B1. Cvetovich R.J. et al., J. Org. Chem. 1994, 59, 7704.
3. Efficacy in sheep and pharmacokinetics in cattle that led to the selection of eprinomectin as a topical endectocide for cattle. Shoop W.L. et al., Int. J. Parasitol. 1996, 26, 1227.