

Product Name: Avermectin B1b

Product Number: A139

CAS Number: 65195-56-4

Molecular Formula: $C_{47}H_{70}O_{14}$

Molecular Weight: 859.1

Appearance: White solid

Storage Conditions: -20°C

Description: Avermectin B1b is the minor component (<20%) of a commercially available anthelmintic used to control parasitic nematodes in livestock. Avermectin B1b contains an isopropyl residue in the 25-position. In vitro and in vivo studies have shown this analogue to be active, but less potent than the B1a analogue.

This product is considered a dangerous good. Quantities above 1 g may be subject to additional shipping fees. Please contact us for specific questions.

References: Avermectin B1a irreversibly blocks postsynaptic potentials at the lobster neuromuscular junction by reducing muscle membrane resistance. Fritz L.C. et al. et al. Proc Natl Acad Sci U S A. 1979, 76, 2062.

Solubilization and characterization of a high affinity ivermectin binding site from *Caenorhabditis elegans*. Cully D.F. et al. Mol Pharmacol. 1991, 40, 326.

Glutamate-gated chloride channels and the mode of action of the avermectin/milbemycin anthelmintics. Wolstenholme A.J. and Rogers A.T. Parasitology. 2005, 131, S85-95 (Review).