



LKT Laboratories, Inc.

Ivermectin

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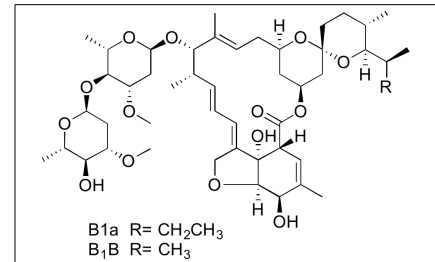
Product Information

Product ID I8618
CAS No. 70288-86-7
Chemical Name 22,23-Dihydroabamectin

Synonym 22,23-Dihydroavermectin B1, MK-933, Heartgard 30, Mectizan, Stromectol, Zimecterin

Formula C₄₈H₇₄O₁₄
Formula Wt. 875.09
Melting Point 155° C
Purity ≥95%
Solubility Soluble in methyl ethyl ketone, propylene glycol, and polyethylene glycol. Insoluble in water.

Store Temp 4° C
Ship Temp Ambient



Bulk quantities available upon request

Product ID	Size
I8618	1 g
I8618	5 g

Description Ivermectin is an avermectin-family antibiotic that exhibits anti-parasitic/anti-helminthic activity. Ivermectin activates glutamate-gated Cl⁻ channels, interfering with neurotransmission and muscle function in arthropods and nematodes. At high doses, ivermectin also activates GABA-A receptors and glycine receptors.

References Chaccour CJ, Kobylinski KC, Bassat Q, et al. Ivermectin to reduce malaria transmission: a research agenda for a promising new tool for elimination. *Malar J.* 2013 May 7;12:153. PMID: 23647969.

Lynagh T, Lynch JW. Molecular mechanisms of Cys-loop ion channel receptor modulation by ivermectin. *Front Mol Neurosci.* 2012 May 7;5:60. PMID: 22586367.

Yates DM, Wolstenholme AJ. An ivermectin-sensitive glutamate-gated chloride channel subunit from *Dirofilaria immitis*. *Int J Parasitol.* 2004 Aug;34(9):1075-81. PMID: 15313134.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.