

# Moxidectin

Catalog No: tcsc3080



## Available Sizes

**Size:** 10mg

**Size:** 50mg



## Specifications

**CAS No:**

113507-06-5

**Formula:**

$C_{37}H_{53}NO_8$

**Pathway:**

Anti-infection

**Target:**

Parasite

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 42$  mg/mL (65.64 mM)

**Alternative Names:**

CL301423

**Observed Molecular Weight:**

639.82

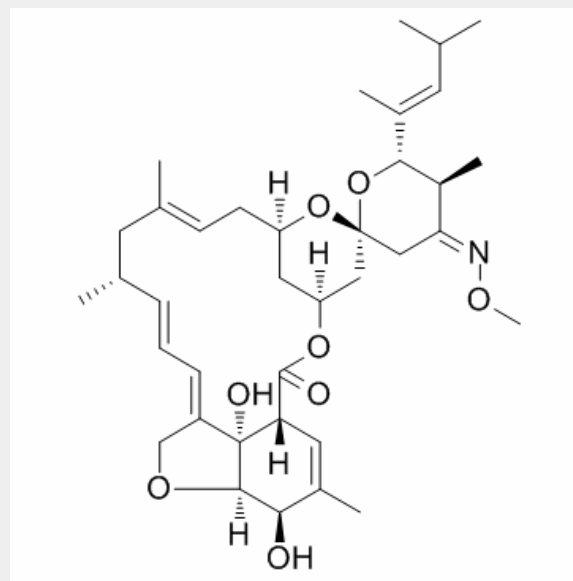
## Product Description

Moxidectin(ProHeart 6; CL301423; Cydectin) is an anthelmintic drug which kills parasitic worms (helminths), and is used for the prevention and control of heartworm and intestinal worms.

IC50 value:

Target: Anti-parasitic

Moxidectin is a semisynthetic derivative of nemadectin, which is produced by fermentation by *Streptomyces cyano-griseus*. Moxidectin treats and controls some of the most common internal and external parasites by selectively binding to a parasite's glutamate-gated chloride ion channels. These channels are vital to the function of invertebrate nerve and muscle cells; when moxidectin binds to the channels, it disrupts neurotransmission, resulting in paralysis and death of the parasite. Studies of moxidectin show the side effects vary by animal and may be affected by the product's formulation, application method and dosage.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!