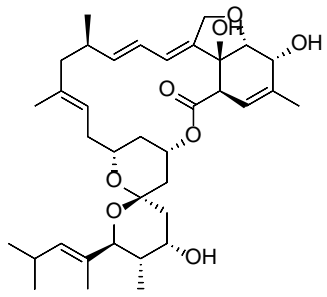


Product data sheet



MedKoo Cat#: 413014 Name: Nemadectin CAS: 102130-84-7 Chemical Formula: C ₃₆ H ₅₂ O ₈ Exact Mass: 612.3662 Molecular Weight: 612.804	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

Nemadectin is a macrocyclic lactone antibiotic that demonstrates endectocidal and nematocidal activity. Differing only by the unsaturated side-chain extending from the 6,6-spiroketal core, this antibiotic is structurally similar to milbemycins and avermectins. Nemadectin has been used as starting material for the production of the veterinary anthelmintic, moxidectin, and its derivatives have been explored for their potential antiparasitic use.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
TBD	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	1.63 mL	8.16 mL	16.32 mL
5 mM	0.33 mL	1.63 mL	3.26 mL
10 mM	0.16 mL	0.82 mL	1.63 mL
50 mM	0.03 mL	0.16 mL	0.33 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

TBD

7. Bioactivity

Biological target:

Nemadectin (CL-287088), an orally active broad-spectrum endectocide, is highly efficacious against natural infections of all the major canine gastrointestinal helminthes.

In vitro activity

TBD

In vivo activity

TBD

Product data sheet



Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.