

## Permethrin

## Chemical Properties

CAS No. :	52645-53-1
Formula:	C <sub>21</sub> H <sub>20</sub> Cl <sub>2</sub> O <sub>3</sub>
Molecular Weight:	391.29
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Permethrin (NRDC-143) is a pyrethroid insecticide commonly used in the treatment of LICE INFESTATIONS and SCABIES.
Targets(IC50)	ATPase,Mitochondrial Metabolism,Parasite,Sodium Channel

## Solubility Information

Solubility	DMSO: 250 mg/mL (638.91 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.11 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5556 mL	12.7782 mL	25.5565 mL
5 mM	0.5111 mL	2.5556 mL	5.1113 mL
10 mM	0.2556 mL	1.2778 mL	2.5556 mL
50 mM	0.0511 mL	0.2556 mL	0.5111 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Cao Z, et al. J Pharmacol Exp Ther. 2011, 336(1):197-205.

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