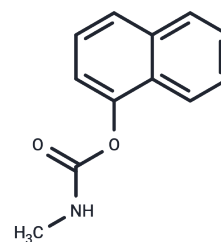


Carbaryl

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 63-25-2 |
| Formula: | C ₁₂ H ₁₁ NO ₂ |
| Molecular Weight: | 201.22 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|---------------|--|
| Description | Carbaryl (1-naphthyl methylcarbamate) is a carbamate insecticide and parasiticide. It is a potent anticholinesterase agent belonging to the carbamate group of reversible cholinesterase inhibitors. It has a particularly low toxicity from dermal absorption and is used for control of head lice in some countries. |
| Targets(IC50) | Apoptosis,AChR,Parasite,Cholinesterase (ChE),ROS |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 50 mg/mL (248.48 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 (9.94 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 | 4.9697 mL | 24.8484 mL | 49.6968 mL |
| 5 mM | 0.9939 mL | 4.9697 mL | 9.9394 mL |
| 10 mM | 0.497 mL | 2.4848 mL | 4.9697 mL |
| 50 mM | 0.0994 mL | 0.497 mL | 0.9939 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

Wang HP, et al. Environ Toxicol. 2014 Oct; 29(10):1193-200.

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