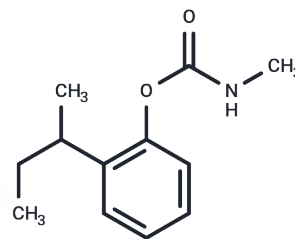


## Fenobucarb

## Chemical Properties

CAS No. :	3766-81-2
Formula:	C <sub>12</sub> H <sub>17</sub> NO <sub>2</sub>
Molecular Weight:	207.27
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	Fenobucarb is a broad-spectrum carbamate insecticide and AChE inhibitor primarily used to control various flukes damaging crops. It exhibits neurotoxicity to zebrafish foetal development and induces muscle spasms and paralysis in insects, fish, and mammals.
Targets(IC50)	Apoptosis, Cholinesterase (ChE)

## Solubility Information

Solubility	DMSO: 80 mg/mL (385.97 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: 3.3 mg/mL (15.92 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	4.8246 mL	24.1231 mL	48.2462 mL
5 mM	0.9649 mL	4.8246 mL	9.6492 mL
10 mM	0.4825 mL	2.4123 mL	4.8246 mL
50 mM	0.0965 mL	0.4825 mL	0.9649 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

Xiao-Yu Zhu, et al. Fenobucarb-induced developmental neurotoxicity and mechanisms in zebrafish. Neurotoxicology. 2020 Jul;79:11-19.

Xiao-Yu Zhu, et al. Fenobucarb induces heart failure and cerebral hemorrhage in zebrafish. Aquat Toxicol. 2019 Apr;209:34-41.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481