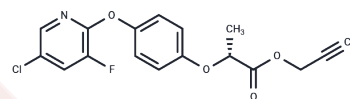


## Clodinafop-propargyl

## Chemical Properties

CAS No. :	105512-06-9
Formula:	C <sub>17</sub> H <sub>13</sub> ClFNO <sub>4</sub>
Molecular Weight:	349.74
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	Clodinafop-propargyl is a post-emergence herbicide belonging to the propionic acid arylphenoxy (AOPP) class, inhibiting acetyl-CoA carboxylase (ACCase), and is used for annual grass weeds.
Targets(IC50)	Acetyl-CoA Carboxylase

## Solubility Information

Solubility	DMSO: 80 mg/mL (228.74 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (9.44 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	2.8593 mL	14.2963 mL	28.5927 mL
5 mM	0.5719 mL	2.8593 mL	5.7185 mL
10 mM	0.2859 mL	1.4296 mL	2.8593 mL
50 mM	0.0572 mL	0.2859 mL	0.5719 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

Wenbi Guan, et al. Dissipation of clodinafop-propargyl and its metabolite in wheat field ecosystem. Bull Environ Contam Toxicol. 2013 Jun;90(6):750-5.

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