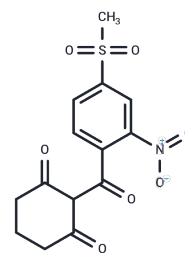


Mesotrione

Chemical Properties

CAS No. :	104206-82-8
Formula:	C ₁₄ H ₁₃ NO ₇ S
Molecular Weight:	339.32
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	Mesotrione is a selective triketone herbicide
Targets(IC50)	Reactive Oxygen Species,ROS

Solubility Information

Solubility	DMSO: 250 mg/mL (736.77 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 (5.89 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	2.9471 mL	14.7354 mL	29.4707 mL
5 mM	0.5894 mL	2.9471 mL	5.8941 mL
10 mM	0.2947 mL	1.4735 mL	2.9471 mL
50 mM	0.0589 mL	0.2947 mL	0.5894 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

Zhongkun, Du, Yanyan, et al. Effects of the herbicide mesotrione on soil enzyme activity and microbial communities.[J]. Ecotoxicology and environmental safety, 2018.

Wangcang, Su, Hongdan, et al. Degradation of Mesotrione Affected by Environmental Conditions[J]. Bulletin of Environmental Contamination & Toxicology, 2016.

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