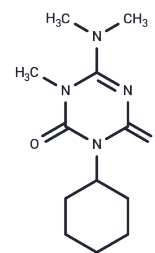


Hexazinone

Chemical Properties

CAS No. :	51235-04-2
Formula:	C ₁₂ H ₂₀ N ₄ O ₂
Molecular Weight:	252.31
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	Hexazinone is a broad-spectrum herbicide from the triazine family. Hexazinone inhibits photosynthesis through binding to the D-1 quinone protein of the electron transport chain in photosystem II.
Targets(IC50)	Others,Photosystem (PS)

Solubility Information

Solubility	DMSO: 50 mg/mL (198.17 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 (7.93 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	3.9634 mL	19.8169 mL	39.6338 mL
5 mM	0.7927 mL	3.9634 mL	7.9268 mL
10 mM	0.3963 mL	1.9817 mL	3.9634 mL
50 mM	0.0793 mL	0.3963 mL	0.7927 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

Arnold P. Appleby, Franz Müller, Serge Carpy "Weed Control" in Ullmann's Encyclopedia of Industrial Chemistry 2002, Wiley-VCH, Weinheim. doi:10.1002/14356007.a28_165

Hexazinone, Herbicide Profile, Pesticide Management Education Program, Cornell University

Wang, Huili; Xu, Shuxia; Tan, Chengxia; Wang, Xuedong (2009-05-30). "Anaerobic biodegradation of hexazinone in four sediments". Journal of Hazardous Materials. 164 (2-3): 806-811. doi:10.1016/j.jhazmat.2008.08.073.

Hexazinone: Reregistration Eligibility Decision (RED) Fact Sheet (PDF).

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