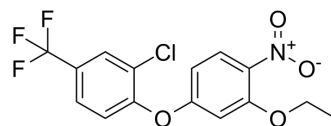


Oxyfluorfen

Cat. No.:	HY-119176		
CAS No.:	42874-03-3		
Molecular Formula:	C ₁₅ H ₁₁ ClF ₃ NO ₄		
Molecular Weight:	361.7		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (276.47 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.7647 mL	13.8236 mL	27.6472 mL
	5 mM	0.5529 mL	2.7647 mL	5.5294 mL
	10 mM	0.2765 mL	1.3824 mL	2.7647 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.91 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Oxyfluorfen is a pre- and post-emergence diphenyl ether herbicide to control annual broad-leaved and grass weeds. Oxyfluorfen is a protoporphyrinogen oxidase inhibitor and inhibits photosynthesis by blocking chlorophyll synthesis ^{[1][2]} .
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REFERENCES

- [1]. Chi Wu, et al. Sorption, Degradation and Bioavailability of Oxyfluorfen in Biochar-Amended Soils. *Sci Total Environ.* 2019 Mar 25;658:87-94.
- [2]. E Warabi, et al. Resistance of a Soybean Cell Line to Oxyfluorfen by Overproduction of Mitochondrial Protoporphyrinogen Oxidase. *Pest Manag Sci.* 2001 Aug;57(8):743-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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