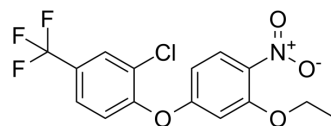


## Oxyfluorfen

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



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (276.47 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	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.				
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.91 mM); Clear solution			

### BIOLOGICAL ACTIVITY

<b>Description</b>	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 <sup>[1][2]</sup> .
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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.

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

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