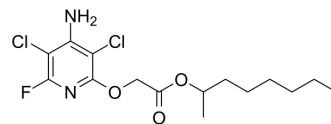


## Fluroxypyr-meptyl

Cat. No.:	HY-136371		
CAS No.:	81406-37-3		
Molecular Formula:	C <sub>15</sub> H <sub>21</sub> Cl <sub>2</sub> FN <sub>2</sub> O <sub>3</sub>		
Molecular Weight:	367.24		
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 (272.30 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7230 mL	13.6151 mL	27.2302 mL
	5 mM	0.5446 mL	2.7230 mL	5.4460 mL
	10 mM	0.2723 mL	1.3615 mL	2.7230 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: 2.5 mg/mL (6.81 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.5 mg/mL (6.81 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (6.81 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Fluroxypyr-meptyl (Fluroxypyr-1-methylheptyl ester), a synthetical phytohormone, is used as herbicide agent<sup>[1][2]</sup>.

### REFERENCES

- [1]. Wang L, et, al. Dissipation and residues of fluroxypyr-meptyl in rice and environment. Bull Environ Contam Toxicol. 2011 Apr;86(4):449-53.

---

[2]. Hewitt PG, et, al. Metabolism of fluroxypyr, fluroxypyr methyl ester, and the herbicide fluroxypyr methylheptyl ester. II: in rat skin homogenates. Drug Metab Dispos. 2000 Jul;28(7):755-9.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA