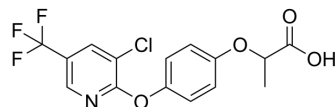


## Haloxyfop

Cat. No.:	HY-B1856		
CAS No.:	69806-34-4		
Molecular Formula:	C <sub>15</sub> H <sub>11</sub> ClF <sub>3</sub> NO <sub>4</sub>		
Molecular Weight:	361.7		
Target:	Acetyl-CoA Carboxylase		
Pathway:	Metabolic Enzyme/Protease		
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 >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.91 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.91 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	Haloxyfop is an aryloxyphenoxypropionic acid herbicide and is widely used in grass weeds in broad-leaf crops <sup>[2]</sup> . Haloxyfop inhibits the acetyl coenzyme A carboxylase (EC 6.4.1.2) from corn seedling chloroplasts with an IC <sub>50</sub> of 0.5 μM, but has no effect on this enzyme in pea <sup>[2]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 0.5 μM (acetyl coenzyme A carboxylase (EC 6.4.1.2)) <sup>[2]</sup>

### REFERENCES

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[1]. Urrairat Koesukiwat, et al. Method Development and Validation for Total Haloxyfop Analysis in Infant Formulas and Related Ingredient Matrices Using Liquid Chromatography-Tandem Mass Spectrometry. Anal Bioanal Chem

[2]. J D Burton, et al. Inhibition of Plant Acetyl-Coenzyme A Carboxylase by the Herbicides Sethoxydim and Haloxyfop. Biochem Biophys Res Commun

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

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