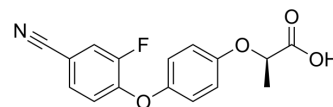


Cyhalofop

Cat. No.:	HY-17528		
CAS No.:	122008-78-0		
Molecular Formula:	C ₁₆ H ₁₂ FNO ₄		
Molecular Weight:	301.27		
Target:	Drug Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 31 mg/mL (102.90 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.3193 mL	16.5964 mL	33.1928 mL
	5 mM	0.6639 mL	3.3193 mL	6.6386 mL
	10 mM	0.3319 mL	1.6596 mL	3.3193 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: ≥ 2.08 mg/mL (6.90 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.08 mg/mL (6.90 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.08 mg/mL (6.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cyhalofop (Cyhalofop acid), the primary metabolite of Cyhalofop-butyl (HY-B0861) in susceptible grasses, is the herbicidally active metabolite. Cyhalofop-butyl is an aryloxyphenoxypropionate post-emergence herbicide widely used around the world in agriculture^{[1][2]}.

REFERENCES

[1]. Ottis BV, et al. Determination of antagonism between cyhalofop-butyl and other rice (*Oryza sativa*) herbicides in barnyardgrass (*Echinochloa crus-galli*). *J Agric Food Chem.* 2005;53(10):4064-4068.

[2]. Cao F, et al. Acute and short-term developmental toxicity of cyhalofop-butyl to zebrafish (*Danio rerio*). *Environ Sci Pollut Res Int.* 2016;23(10):10080-10089.

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

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