Cyhalofop

Cat. No.: HY-17528

CAS No.: 122008-78-0

Molecular Formula: $C_{16}H_{12}FNO_4$

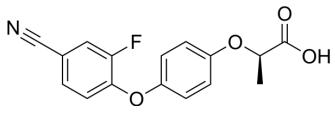
Molecular Weight: 301.27

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	Mass / Solvent / Concentration	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

1. 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
2. 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
3. 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.

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