Propaquizafop

Cat. No.: HY-117262

CAS No.: 111479-05-1

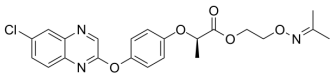
Molecular Formula: $C_{22}H_{22}ClN_3O_5$

Molecular Weight: 443.88

Target: Acetyl-CoA Carboxylase

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (225.29 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2529 mL	11.2643 mL	22.5286 mL
	5 mM	0.4506 mL	2.2529 mL	4.5057 mL
	10 mM	0.2253 mL	1.1264 mL	2.2529 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.63 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Propaquizafop is a phenoxyisopropionic acid herbicide and an acetyl-coA carboxylase inhibitor[1][2].

REFERENCES

[1]. Bouis, et al. Effect of Propaquizafop and Its Free-Acid Derivative on Lauric Acid Hydroxylation and Peroxisomal Beta-Oxidation in Primary Cultured Rat, Mouse, Guinea Pig and Marmoset Hepatocytes. Toxicol In Vitro. 1993 Jul;7(4):427-31.

[2]. Laura R Davies, et al. Detection and Characterization of Resistance to Acetolactate Synthase Inhibiting Herbicides in Anisantha and Bromus Species in the United Kingdom. Pest Manag Sci. 2020 Jul;76(7):2473-2482.

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

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