

Quizalofop-ethyl

Chemical Properties

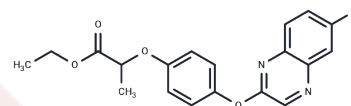
CAS No. : 76578-14-8

Formula: C₁₉H₁₇ClN₂O₄

Molecular Weight: 372.8

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Quizalofop-ethyl (NC 302) is a aryloxyphenoxypropionate herbicide used for post-emergence control of annual and perennial grass weeds within broadleaf crops such as soybeans, cotton, and peanuts, and its herbicidal activity is mediated through the potent inhibition of the acetyl-CoA carboxylase (ACCase) enzyme.
Targets(IC50)	Acetyl-CoA Carboxylase

Solubility Information

Solubility	DMSO: Soluble, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6824 mL	13.412 mL	26.824 mL
5 mM	0.5365 mL	2.6824 mL	5.3648 mL
10 mM	0.2682 mL	1.3412 mL	2.6824 mL
50 mM	0.0536 mL	0.2682 mL	0.5365 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Zhang H, et al. Purification and properties of a novel quizalofop-p-ethyl-hydrolyzing esterase involved in quizalofop-p-ethyl degradation by *Pseudomonas* sp. J-2. *Microb Cell Fact*. 2017 May 10;16(1):80.
- Zhu LZ, et al. Quizalofop-P-ethyl exposure increases estrogen axis activity in male and slightly decreases estrogen axis activity in female zebrafish (*Danio rerio*). *Aquat Toxicol*. 2017 Feb;183:76-84.
- Saha A, Bhaduri D, Pipariya A, Jain NK. Influence of imazethapyr and quizalofop-p-ethyl application on microbial biomass and enzymatic activity in peanut grown soil. *Environ Sci Pollut Res Int*. 2016 Dec;23(23):23758-23771.
- Han Y, Song L, Zou N, Chen R, Qin Y, Pan C. Multi-residue determination of 171 pesticides in cowpea using modified QuEChERS method with multi-walled carbon nanotubes as reversed-dispersive solid-phase extraction materials. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2016 Sep 15;1031:99-108.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481