

Tralkoxydim

Chemical Properties

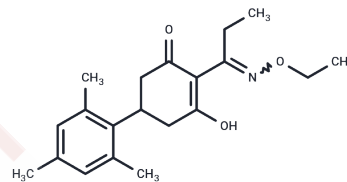
CAS No. : 87820-88-0

Formula: C₂₀H₂₇NO₃

Molecular Weight: 329.43

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

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|---------------|--|
| Description | Tralkoxydim (Tralkoxydime) is an alkyl ketone herbicide. Tralkoxydim works as an ACCase inhibitor. |
| Targets(IC50) | Acetyl-CoA Carboxylase |

Solubility Information

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|------------|---|
| Solubility | DMSO: 50 mg/mL (151.78 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.0355 mL | 15.1777 mL | 30.3555 mL |
| 5 mM | 0.6071 mL | 3.0355 mL | 6.0711 mL |
| 10 mM | 0.3036 mL | 1.5178 mL | 3.0355 mL |
| 50 mM | 0.0607 mL | 0.3036 mL | 0.6071 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

Wu WZ, Shan ZJ, Kong Y, He J. Degradation and adsorption of tralkoxydim in Chinese soils and water-sediment environments. *Environ Monit Assess.* 2017 Jun;189(6):273. doi: 10.1007/s10661-017-5984-5. Epub 2017 May 17. PubMed PMID: 28516406.

Cirujeda A, Taberner A. Chemical control of herbicide-resistant *Lolium rigidum* Gaud. in north-eastern Spain. *Pest Manag Sci.* 2010 Dec;66(12):1380-8. doi: 10.1002/ps.2031. Epub 2010 Oct 19. PubMed PMID: 20960470.

Alarcón-Reverte R, Moss SR. Resistance to ACCase-inhibiting herbicides in the weed *Lolium multiflorum*. *Commun Agric Appl Biol Sci.* 2008;73(4):899-902. PubMed PMID: 19226841.

Potapovich MV, Eremin AN, Rubinov DB, Metelitsa DI. [Effect of herbicide tralkoxydim and 2-acylcyclohexane-1,3-diones on peroxidase activity]. *Prikl Biokhim Mikrobiol.* 2008 Jan-Feb;44(1):24-33. Russian. PubMed PMID: 18491593.

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