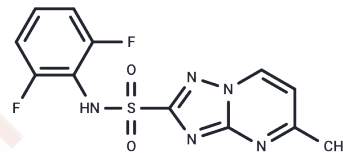


Flumetsulam

Chemical Properties

CAS No. :	98967-40-9
Formula:	C ₁₂ H ₉ F ₂ N ₅ O ₂ S
Molecular Weight:	325.29
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	Flumetsulam (XRD 498) is a triazolopyrimidine herbicide.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 65 mg/mL (199.82 mM), 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	3.0742 mL	15.3709 mL	30.7418 mL
5 mM	0.6148 mL	3.0742 mL	6.1484 mL
10 mM	0.3074 mL	1.5371 mL	3.0742 mL
50 mM	0.0615 mL	0.3074 mL	0.6148 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

- Li KJ, et al. Design, Synthesis, and Herbicidal Activity of Pyrimidine-Biphenyl Hybrids as Novel Acetohydroxyacid Synthase Inhibitors. *J Agric Food Chem*. 2018 Apr 18;66(15):3773-3782.
- Li J, et al. A novel amino acid substitution Trp574Arg in acetolactate synthase (ALS) confers broad resistance to ALS-inhibiting herbicides in crabgrass (*Digitaria sanguinalis*). *Pest Manag Sci*. 2017 Dec;73(12):2538-2543.
- Palma G, et al. Urea Fertilizer and pH Influence on Sorption Process of Flumetsulam and MCPA Acidic Herbicides in a Volcanic Soil. *J Environ Qual*. 2016 Jan;45(1):323-30.
- Zhong M, Wang T, Hu J. Dissipation kinetics and residues of triazolopyrimidine herbicides flumetsulam and florasulam in corn ecosystem. *Environ Monit Assess*. 2015 Jun;187(6):390.

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