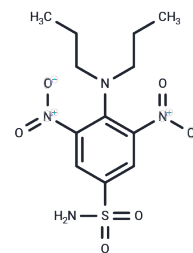


Oryzalin

Chemical Properties

CAS No. :	19044-88-3
Formula:	C ₁₂ H ₁₈ N ₄ O ₆ S
Molecular Weight:	346.36
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	Oryzalin is a selective pre-emergence herbicide belonging to the dinitroaniline class, which exerts its effect by inhibiting cell division in weeds.
Targets(IC50)	Others, Microtubule Associated
In vitro	Oryzalin (6-500 μM, 1 hour) was treated with human erythrocytes and was found to have high hemolytic activity in human erythrocytes, with a hemolytic rate of approximately 20% at 100 μM. [1]

Solubility Information

Solubility	DMSO: 200 mg/mL (577.43 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	2.8872 mL	14.4358 mL	28.8717 mL
5 mM	0.5774 mL	2.8872 mL	5.7743 mL
10 mM	0.2887 mL	1.4436 mL	2.8872 mL
50 mM	0.0577 mL	0.2887 mL	0.5774 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

Bouvier L, et al. Oryzalin as an efficient agent for chromosome doubling of haploid apple shoots in vitro. Plant Breeding, 1994, 113(4): 343-346.

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