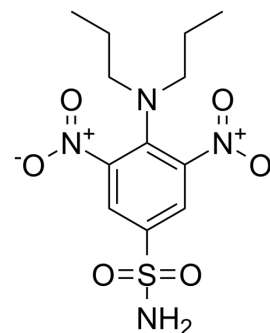


Oryzalin

Cat. No.:	HY-147092		
CAS No.:	19044-88-3		
Molecular Formula:	C ₁₂ H ₁₈ N ₄ O ₆ S		
Molecular Weight:	346.36		
Target:	Microtubule/Tubulin		
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (721.79 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

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

BIOLOGICAL ACTIVITY

Description

Oryzalin is a dinitroaniline herbicide, binding to plant tubulin and inhibits microtubule (MT) polymerization in vitro. Oryzalin depolymerizes MTs and prevented the polymerization of new MTs at all stages of the mitotic cycle^[1].

REFERENCES

[1]. Morejohn LC, et al. Oryzalin, a dinitroaniline herbicide, binds to plant tubulin and inhibits microtubule polymerization in vitro. *Planta*. 1987 Oct;172(2):252-64.

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

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