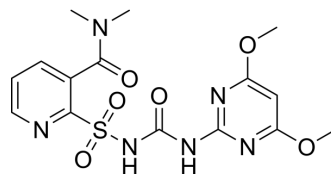


Nicosulfuron

Cat. No.:	HY-B1876
CAS No.:	111991-09-4
Molecular Formula:	C ₁₅ H ₁₈ N ₆ O ₆ S
Molecular Weight:	410.41
Target:	Acetolactate Synthase (ALS)
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL (81.21 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4366 mL	12.1829 mL	24.3659 mL
		5 mM	0.4873 mL	2.4366 mL	4.8732 mL
		10 mM	0.2437 mL	1.2183 mL	2.4366 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.09 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.09 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Nicosulfuron is a selective herbicide belonging to the sulfonyleurea family. Nicosulfuron is commonly used as a post-emergence herbicide to protect maize crops from weeds. Nicosulfuron inhibits acetolactate synthase (ALS) enzyme activity [1].
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REFERENCES

[1]. Louis Carles, et al. Nicosulfuron Degradation by an Ascomycete Fungus Isolated From Submerged Alnus Leaf Litter. Front Microbiol. 2018 Dec 19;9:3167.

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

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