Amidosulfuron

Cat. No.: HY-B1912 CAS No.: 120923-37-7 Molecular Formula: $C_9H_{15}N_5O_7S_2$ Molecular Weight: 369.37 Target: Others Pathway: Others

Storage: Powder -20°C 3 years

2 years

In solvent -80°C 6 months

> -20°C 1 month

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 125 mg/mL (338.41 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.7073 mL	13.5366 mL	27.0731 mL
	5 mM	0.5415 mL	2.7073 mL	5.4146 mL
	10 mM	0.2707 mL	1.3537 mL	2.7073 mL

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

BIOLOGICAL ACTIVITY

Description	Amidosulfuron is a herbicide. Amidosulfuron targets acetohydroxyacid synthase (AHAS), is highly effective against dicot broad-leaf weeds $^{[1][2]}$.
IC ₅₀ & Target	acetohydroxyacid synthase $^{[1]}$
In Vitro	Amidosulfuron (foliar-sprayed with 0.2 mg a.i./L) reduces photosynthetic rate and the contents of leaf chlorophyll, soluble sugar and pyruvate, as well as content alteration of several free amino acids in the treated plants ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

[1]. Cheng Y, et al. Crystal Structure of the Commercial Herbicide, Amidosulfuron, in Complex with Arabidopsis thaliana Acetohydroxyacid Synthase. J Agric Food Chem. 2023 Apr 5;71(13):5117-5126.

[2]. Liu XQ, et al. Acetolactate S Rapeseed. Front Plant Sci. 201		ide Amidosulfuron Causes Chlord	oplast Destruction, Tissue Autophagy, and Elev	vation of Ethylene Release in	
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