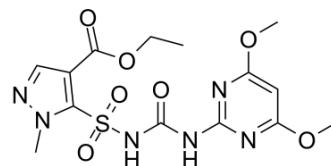


Pyrazosulfuron-ethyl

Cat. No.:	HY-B0865		
CAS No.:	93697-74-6		
Molecular Formula:	C ₁₄ H ₁₈ N ₆ O ₇ S		
Molecular Weight:	414.39		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

THF : 25 mg/mL (60.33 mM; Need ultrasonic; DMSO can inactivate Pyrazosulfuron-ethyl's activity)
 Acetone : 6.67 mg/mL (16.10 mM; Need ultrasonic; DMSO can inactivate Pyrazosulfuron-ethyl's activity)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		2.4132 mL	12.0659 mL	24.1319 mL
	5 mM		0.4826 mL	2.4132 mL	4.8264 mL
	10 mM		0.2413 mL	1.2066 mL	2.4132 mL

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

BIOLOGICAL ACTIVITY

Description

Pyrazosulfuron-ethyl, one of the acetolactate synthase inhibiting herbicides in the sulphonylurea family, has been widely used to control weed growth in commercial cereal, soybean, and vegetable fields^[1].

In Vitro

Pyrazosulfuron-ethyl inhibited biomass production in *Rhodospseudomonas palustris* PSB-S, altered cell morphology, suppressed flagella formation, and reduced pigment biosynthesis through significant suppression of carotenoids biosynthesis^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Luo XW, et al. Adaptation mechanism and tolerance of *Rhodospseudomonas palustris* PSB-S under pyrazosulfuron-ethyl stress. *BMC Microbiol.* 2018;18(1):207. Published 2018 Dec 7.

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

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