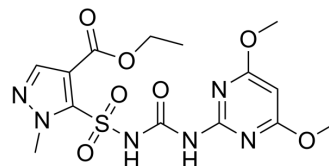


Pyrazosulfuron-ethyl

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:	Acetolactate Synthase (ALS)
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years



* The compound is unstable in solutions, freshly prepared is recommended.

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 Concentration	Mass		
		1 mg	5 mg	10 mg
	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.

CUSTOMER VALIDATION

- SSRN. 2024 Feb 20.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Luo XW, et al. Adaptation mechanism and tolerance of *Rhodopseudomonas 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA