

Product Data Sheet

Product Name: Pyrazosulfuron-ethyl

Cat. No.: GC61225

Chemical Properties

Cas. No. 93697-74-6

SMILES O=C(C1=C(S(=O)(NC(=O)N2C=CC(=O)N2)=O)=O)N(C)N=C1)OCC

Formula $C_{14}H_{18}N_6O_7S$ M.Wt 414.39

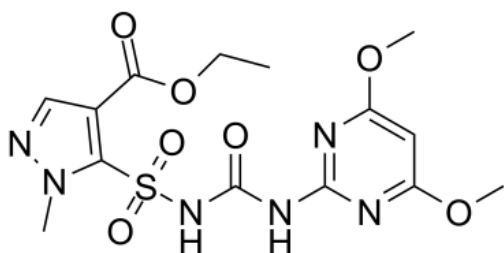
Solubility THF : 25 mg/mL (60.33 mM; Need ultrasonic; DMSO can inactivate Pyrazosulfuron-ethyl's activity);
Acetone : 6.67 mg/mL (16.10 mM; Need ultrasonic; DMSO can inactivate Pyrazosulfuron-ethyl's activity)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

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

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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].

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

[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.

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