

Product Data Sheet

Product Name: Imazethapyr

Cat. No.: GC60932

Chemical Properties

Cas. No. 81335-77-5

SMILES O=C(C1=CC(CC)=CN=C1C2=NC(C(C)C)(C)C(N2)=O)O

Formula $C_{15}H_{19}N_3O_3$ M.Wt 289.33

Solubility DMSO: 83.33 mg/mL (288.01 mM) 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.

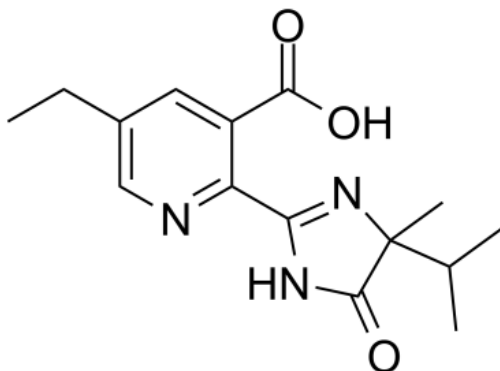
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

Imazethapyr is an imidazolinone herbicide used in crops. Imazethapyr can protect crops from damage by weeds and annual grasses[1][2].

Imazethapyr belongs to the imidazolinones family of herbicides that are being extensively used in a wide range of cropping systems to enhance crop yields and protect crops from damage by weeds and annual grasses in soybean and peanut. Imazethapyr would affect the transcription of photosynthesis-related genes and inhibit the antioxidant system of the plants and affect the chlorophyll synthesis[2].

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[1]. Luca Carena, et al. Modelling the photochemistry of imazethapyr in rice paddy water. Sci Total Environ. 2018 Dec 10;644:1391-1398. [2]. Yanqiang Zhou, et al. Preparation of Imazethapyr Surface Molecularly Imprinted Polymers for Its Selective Recognition of Imazethapyr in Soil Samples. J Anal Methods Chem. 2018 Sep 30;2018:7535417.

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