
Product Data Sheet

Product Name: 4-Fluorophenoxyacetic acid

Cat. No.: GC62802

Chemical Properties

Cas. No. 405-79-8

Formula C₈H₇FO₃

M.Wt 170.14

Solubility DMSO : 25 mg/mL (146.94 mM; ultrasonic and warming and heat to 60°C)

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**

4-Fluorophenoxyacetic acid (4FPA) induces parthenocarpy. 4-Fluorophenoxyacetic acid (4FPA) protects cereals from piercing-sucking insects and thereby increases rice yield in the field[1][2].

[1]. Burton R. Anderson. et al. Control of Annual Bluegrass and Crabgrass in Turf with Fluorophenoxyacetic Acids. Weed Science. January 1958 , pp. 52-58.

[2]. Wanwan Wang, et al. Induction of Defense in Cereals by 4-fluorophenoxyacetic Acid Suppresses Insect Pest Populations and Increases Crop Yields in the Field. Proc Natl Acad Sci U S A. 2020 Jun 2;117(22):12017-12028.

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

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