Data Sheet (Cat.No.Fr13883)

TargetMol

3-Methoxyphenylacetic acid

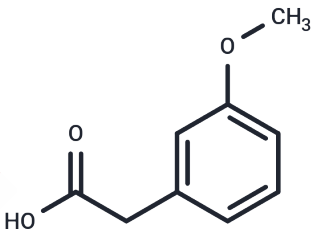
Chemical Properties

CAS No. : 1798-09-0

Formula: C9H10O3

Molecular Weight: 166.17

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	3-Methoxyphenylacetic acid belongs to the class of organic compounds known as anisoles. 3-Methoxyphenylacetic acid is slightly soluble (in water) and a weakly acidic compound (based on its pKa).3-Methoxyphenylacetic acid (m-Methoxyphenylacetic acid), a m-hydroxyphenylacetic acid (m-OHPAA) derivative, is a phytotoxin in Rhizoctonia solani. 3-Methoxyphenylacetic acid is used to develop a toxin-mediated bioassay for resistance to rhizoctonia root rot
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 27.5 mg/mL (165.49 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (12.04 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0179 mL	30.0897 mL	60.1793 mL
5 mM	1.2036 mL	6.0179 mL	12.0359 mL
10 mM	0.6018 mL	3.009 mL	6.0179 mL
50 mM	0.1204 mL	0.6018 mL	1.2036 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mandava NB, et al. Phytotoxins in Rhizoctonia solani: isolation and biological activity of m-hydroxy- and m-methoxyphenylacetic acids. J Agric Food Chem. 1980 Jan-Feb;28(1):71-5.