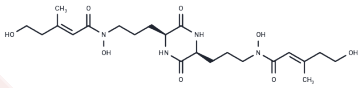
Data Sheet (Cat.No.TN9073)

TargetMol

Dimerum acid

Chemical Properties



CAS No. : 26912-16-3

Formula: C22H36N4O8

Molecular Weight: 484.543

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	Dimerum acid is a dihydroxamate (dihydroxamate) type iron carrier (siderophore) found in Penicillium chrysogenum. It serves as a precursor or degradation product of coprogen and significantly enhances iron uptake in Strategy I plants (such as cucumber) and Strategy II plants (such as maize). At a pH of 6.0, dimerum acid releases bioavailable Fe3+ through ligand exchange with plant-secreted phytosiderophore (phytosiderophore, PS) or EDTA, thereby improving iron supply efficiency in plants. Dimerum acid is applicable in research related to plant iron nutrition and agriculture.
Targets(IC50)	Drug Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0638 mL	10.3191 mL	20.6381 mL
5 mM	0.4128 mL	2.0638 mL	4.1276 mL
10 mM	0.2064 mL	1.0319 mL	2.0638 mL
50 mM	0.0413 mL	0.2064 mL	0.4128 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.

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