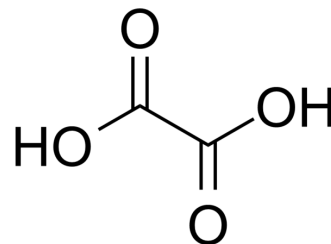


Oxalic acid, 99%

Cat. No.:	HY-Y0262		
CAS No.:	144-62-7		
Molecular Formula:	C ₂ H ₂ O ₄		
Molecular Weight:	90.03		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 130 mg/mL (1443.96 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	11.1074 mL	55.5370 mL	111.0741 mL
		5 mM	2.2215 mL	11.1074 mL	22.2148 mL
10 mM		1.1107 mL	5.5537 mL	11.1074 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 3.25 mg/mL (36.10 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3.25 mg/mL (36.10 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3.25 mg/mL (36.10 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Oxalic Acid is a strong dicarboxylic acid occurring in many plants and vegetables and can be used as an analytical reagent and general reducing agent.	
IC₅₀ & Target	Microbial Metabolite	Human Endogenous Metabolite
In Vitro	Oxalic Acid, a pathogenicity factor for sclerotinia sclerotiorum, suppresses the Oxidative burst of the host plant and directly inhibits the OGA-stimulated production of H ₂ O ₂ by soybean cells, even in the absence of other fungal components ^[1] .	

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cessna SG, et al. Oxalic acid, a pathogenicity factor for *Sclerotinia sclerotiorum*, suppresses the oxidative burst of the host plant. *Plant Cell*. 2000 Nov;12(11):2191-200.

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

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