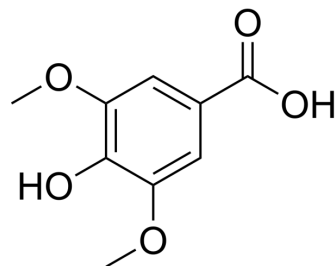


Syringic acid

Cat. No.:	HY-N0339	
CAS No.:	530-57-4	
Molecular Formula:	C ₉ H ₁₀ O ₅	
Molecular Weight:	198.17	
Target:	Endogenous Metabolite; Bacterial	
Pathway:	Metabolic Enzyme/Protease; Anti-infection	
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 : 62.5 mg/mL (315.39 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	5.0462 mL	25.2309 mL	50.4617 mL
		5 mM	1.0092 mL	5.0462 mL	10.0923 mL
10 mM		0.5046 mL	2.5231 mL	5.0462 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: ≥ 2.08 mg/mL (10.50 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (10.50 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (10.50 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Syringic acid is correlated with high antioxidant activity and inhibition of LDL oxidation.	
IC₅₀ & Target	Microbial Metabolite	Human Endogenous Metabolite
In Vitro	Syringic acid is a phenol present in some distilled alcohol beverages. It is also a product of microbial (gut) metabolism of anthocyanins and other polyphenols that have been consumed ^[1] . Research suggests that phenolics from wine may play a positive role against oxidation of low-density lipoprotein (LDL), which is a key step in the development of atherosclerosis.	

Syringic acid is correlated with high antioxidant activity and inhibition of LDL oxidation^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Forester SC, et al. Identification of Cabernet Sauvignon anthocyanin gut microflora metabolites. *J Agric Food Chem*. 2008 Oct 8;56(19):9299-304.
- [2]. Kalkan Yildirim H, et al. Protection capacity against low-density lipoprotein oxidation and antioxidant potential of some organic and non-organic wines. *Int J Food Sci Nutr*. 2004 Aug;55(5):351-62.
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Caution: Product has not been fully validated for medical applications. For research use only.

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