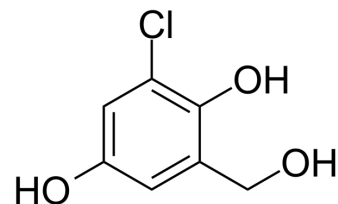


3-Chlorogentisyl alcohol

Cat. No.:	HY-151168	
CAS No.:	32744-80-2	
Molecular Formula:	C ₇ H ₇ ClO ₃	
Molecular Weight:	174.58	
Target:	Bacterial	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (572.80 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	5.7280 mL	28.6402 mL	57.2803 mL
		5 mM	1.1456 mL	5.7280 mL	11.4561 mL
		10 mM	0.5728 mL	2.8640 mL	5.7280 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (14.32 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (14.32 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (14.32 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	3-Chlorogentisyl alcohol is a potent E. coli β-glucuronidase inhibitor with an IC ₅₀ value of 0.74 μM, an K _i value of 0.58 μM. 3-Chlorogentisyl alcohol shows antiproliferative activity. 3-Chlorogentisyl alcohol has the potential for the research of anti-cancer and anti-inflammatory therapies ^[1] .
IC ₅₀ & Target	IC ₅₀ : 0.74 μM (β-glucuronidase) ^[1]
In Vitro	3-Chlorogentisyl alcohol (compound 1) (20 μM; 24 h) shows antiproliferative activity in Namalwa, U266 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay^[1]

Cell Line:	Namalwa, U266 cells
Concentration:	20 μ M
Incubation Time:	24 h
Result:	Showed antiproliferative activity with the viability rate of 70.40% and 94.08% in Namalwa, U266 cells, respectively.

REFERENCES

[1]. YichaoGe et al. Exploring gabosine and chlorogentisyl alcohol derivatives from a marine-derived fungus as EcGUS inhibitors with informatic assisted approaches. European Journal of Medicinal Chemistry, 2022, 114699.

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

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