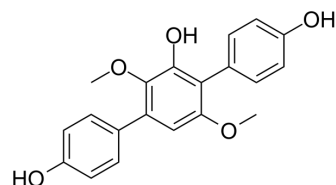


Terphenyllin

Cat. No.:	HY-119821		
CAS No.:	52452-60-5		
Molecular Formula:	C ₂₀ H ₁₈ O ₅		
Molecular Weight:	338.35		
Target:	Glucosidase		
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 : 83.33 mg/mL (246.28 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	2.9555 mL	14.7776 mL	29.5552 mL
	5 mM	0.5911 mL	2.9555 mL	5.9110 mL
	10 mM	0.2956 mL	1.4778 mL	2.9555 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: ≥ 2.08 mg/mL (6.15 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.15 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.15 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Terphenyllin is a naturally abundant p-terphenyl metabolite isolated from the coral derived fungus <i>Aspergillus candidus</i> , has significant α-glucosidase inhibitory activity ^[1] .
IC ₅₀ & Target	α-glucosidase ^[1]

REFERENCES

[1]. Zhang XQ, et al. Design, semisynthesis, α -glucosidase inhibitory, cytotoxic, and antibacterial activities of p-terphenyl derivatives. Eur J Med Chem. 2018 Feb 25;146:232-244.

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

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