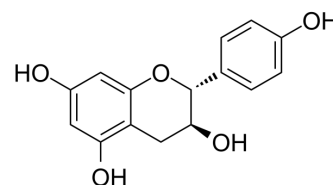


(+)-Afzelechin

Cat. No.:	HY-N2821
CAS No.:	2545-00-8
Molecular Formula:	C ₁₅ H ₁₄ O ₅
Molecular Weight:	274.27
Target:	Glucosidase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (364.60 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.6460 mL	18.2302 mL	36.4604 mL
		5 mM	0.7292 mL	3.6460 mL	7.2921 mL
	10 mM	0.3646 mL	1.8230 mL	3.6460 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 (9.12 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.12 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.12 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	(+)-Afzelechin, isolated from rhizomes of <i>Bergenia ligulata</i> , is an alpha-glucosidase activity inhibitor with an ID ₅₀ (50% inhibition dose) value of 0.13 mM. (+)-Afzelechin can delay the absorption of carbohydrates in food to suppress postprandial hyperglycemia and hyperinsulinemia ^[1] .
IC ₅₀ & Target	ID50: 0.13 mM (alpha-glucosidase) ^[1]

REFERENCES

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

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