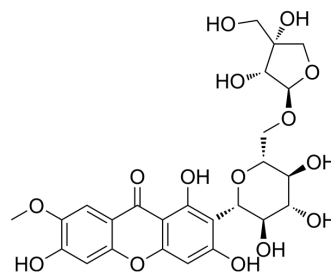


Polygalaxanthone III

Cat. No.:	HY-N1407
CAS No.:	162857-78-5
Molecular Formula:	C ₂₅ H ₂₈ O ₁₅
Molecular Weight:	568.48
Target:	Cytochrome P450
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 : 250 mg/mL (439.77 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.7591 mL	8.7954 mL	17.5908 mL
				5 mM	0.3518 mL	1.7591 mL	3.5182 mL
				10 mM	0.1759 mL	0.8795 mL	1.7591 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 (3.66 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.66 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.66 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Polygalaxanthone III is extracted from polygala tenuifolia wild, has inhibitory effect towards CYP450 enzyme. Polygalaxanthone III inhibits chlorzoxazone 6-hydroxylation catalyzed by CYP2E1 with an IC ₅₀ of 50.56 μM ^[1] .
IC ₅₀ & Target	CYP2

REFERENCES

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

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