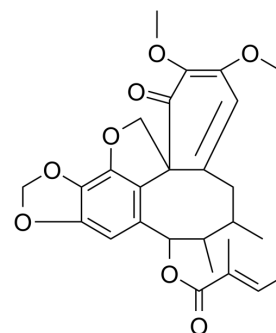


## Heteroclitin D

<b>Cat. No.:</b>	HY-N2077
<b>CAS No.:</b>	140369-76-2
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>30</sub> O <sub>8</sub>
<b>Molecular Weight:</b>	482.52
<b>Target:</b>	Calcium Channel
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (103.62 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		2.0725 mL	10.3623 mL	20.7245 mL
		<b>5 mM</b>		0.4145 mL	2.0725 mL	4.1449 mL
<b>10 mM</b>		0.2072 mL	1.0362 mL	2.0725 mL		
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.18 mM); Suspended solution; Need ultrasonic  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.18 mM); Suspended solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Heteroclitin D is a lignin from Kadsura medicinal plants with anti-lipid peroxidation. Heteroclitin D inhibits L-type calcium channels <sup>[1]</sup> .
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### REFERENCES

[1]. Zhang XM, et al. Blocking effects of heteroclitin D and gomisin J on L-type calcium channels in ventricular cells of guinea pig. Acta Pharmacol Sin. 2000 Apr;21(4):373-6.

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

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