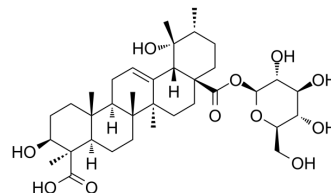


## Ilexsaponin A

<b>Cat. No.:</b>	HY-N2638		
<b>CAS No.:</b>	108524-93-2		
<b>Molecular Formula:</b>	C <sub>36</sub> H <sub>56</sub> O <sub>11</sub>		
<b>Molecular Weight:</b>	664.82		
<b>Target:</b>	Apoptosis		
<b>Pathway:</b>	Apoptosis		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (150.42 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	1.5042 mL	7.5208 mL	15.0417 mL
	<b>5 mM</b>	0.3008 mL	1.5042 mL	3.0083 mL
	<b>10 mM</b>	0.1504 mL	0.7521 mL	1.5042 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (3.76 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.76 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (3.76 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	Ilexsaponin A, isolated from the root of <i>Ilex pubescens</i> , attenuates ischemia-reperfusion-induced myocardial injury through anti-apoptotic pathway. Ilexsaponin A can reduce myocardial infarct size, lower the serum levels of LDH, AST and CK-MB, increase cellular viability and inhibit apoptosis in hypoxia/reoxygenation cardiomyocytes <sup>[1]</sup> .
<b>In Vitro</b>	Ilexsaponin A significantly reduces proapoptotic proteins including caspase-3, cleaved caspase-3 and bax and increases anti-apoptotic protein bcl-2 in hypoxia/reoxygenation cardiomyocytes. Ilexsaponin A treatment increases the expression levels of p-Akt in hypoxia/reoxygenation cellular model and myocardial ischemia/reperfusion animal model <sup>[1]</sup> .

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	MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Ilexsaponin A (10 or 40 mg/kg) reduce the myocardial infarct size in a dose dependent manner in male Sprague-Dawley rats weighing 280-320 g <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Zhang SW, et al. Ilexsaponin A attenuates ischemia-reperfusion-induced myocardial injury through anti-apoptotic pathway. PLoS One. 2017 Feb 9;12(2):e0170984.

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

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