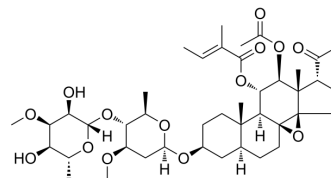


## Tenacissoside G

Cat. No.:	HY-N2103
CAS No.:	191729-43-8
Molecular Formula:	C <sub>42</sub> H <sub>64</sub> O <sub>14</sub>
Molecular Weight:	792.95
Target:	P-glycoprotein
Pathway:	Membrane Transporter/Ion Channel
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 (126.11 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.2611 mL	6.3056 mL	12.6111 mL
				5 mM	0.2522 mL	1.2611 mL	2.5222 mL
				10 mM	0.1261 mL	0.6306 mL	1.2611 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 (3.15 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.15 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.15 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Tenacissoside G is a C21 steroid from the stems of <i>Marsdenia tenacissima</i> . Tenacissoside G reverses multidrug resistance in P-glycoprotein (Pgp)-overexpressing multidrug-resistant cancer cells <sup>[1][2]</sup> .
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### REFERENCES

[1]. Lei YS, et al. [C21 steroids from the stems of *Marsdenia tenacissima*]. Yao Xue Xue Bao. 2008 May;43(5):509-12.

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

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