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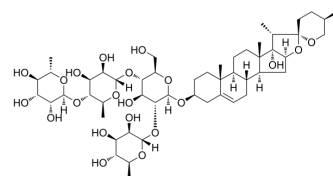
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Paris saponin VII

Cat. No.:	HY-N3584
CAS No.:	68124-04-9
Molecular Formula:	C ₅₁ H ₈₂ O ₂₁
Molecular Weight:	1031.18
Target:	Akt; p38 MAPK; P-glycoprotein; Bcl-2 Family; Caspase; PARP; Autophagy; Apoptosis
Pathway:	PI3K/Akt/mTOR; MAPK/ERK Pathway; Membrane Transporter/Ion Channel; Apoptosis; Cell Cycle/DNA Damage; Epigenetics; Autophagy
Storage:	-20°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 (96.98 mM; Need ultrasonic)				
	H ₂ O : < 0.1 mg/mL (insoluble)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	0.9698 mL	4.8488 mL	9.6976 mL
		5 mM	0.1940 mL	0.9698 mL	1.9395 mL
10 mM		0.0970 mL	0.4849 mL	0.9698 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 (2.42 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.42 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil				
	Solubility: ≥ 2.5 mg/mL (2.42 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Paris saponin VII (Chonglou Saponin VII) is a steroidal saponin isolated from the roots and rhizomes of Trillium tschonoskii. Paris saponin VII-induced apoptosis in K562/ADR cells is associated with Akt/MAPK and the inhibition of P-gp. Paris saponin VII attenuates mitochondrial membrane potential, increases the expression of apoptosis-related proteins, such as Bax and cytochrome c, and decreases the protein expression levels of Bcl-2, caspase-9, caspase-3, PARP-1, and p-Akt. Paris saponin VII induces a robust autophagy in K562/ADR cells and provides a biochemical basis in the treatment of leukemia ^[1] .			
IC ₅₀ & Target	p38	Bcl-2	Caspase-9	Caspase-3

	PARP-1
In Vitro	Paris saponin VII (Chonglou Saponin VII) inhibits the growth of adriamycin-resistant human leukemia cells (K562/ADR) in a dose-dependent manner. Paris saponin VII significantly suppresses cell proliferation by cell cycle arrest in the G0/G1 phase [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Paris saponin VII (Chonglou Saponin VII) (intravenous administration) significantly enhances anticancer efficacy of adriamycin to MCF-7/ADR xenograft model in nude mice [2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int J Biol Sci. 2024 Apr 15; 20(7):2454-2475.
- Burns. 2021 Feb;47(1):140-149.

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REFERENCES

- [1]. Yan T, et al. Paris saponin VII induces cell cycle arrest and apoptosis by regulating Akt/MAPK pathway and inhibition of P-glycoprotein in K562/ADR cells. *Phytother Res.* 2018 May;32(5):898-907.
- [2]. Li Y, et al. Paris saponin VII reverses chemoresistance in breast MCF-7/ADR cells. *J Ethnopharmacol.* 2019 Mar 25;232:47-54.

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

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