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Hederacolchiside A1

Cat. No.: HY-N6950

CAS No.: 106577-39-3

Molecular Formula: $C_{47}H_{76}O_{16}$

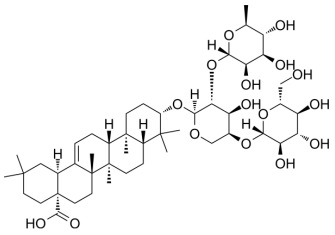
Molecular Weight: 897.1

Target: PI3K; Akt; mTOR; Parasite; Apoptosis

Pathway: PI3K/Akt/mTOR; Anti-infection; Apoptosis

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 (111.47 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.1147 mL	5.5735 mL	11.1470 mL
	5 mM	0.2229 mL	1.1147 mL	2.2294 mL
	10 mM	0.1115 mL	0.5574 mL	1.1147 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 (2.79 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (2.79 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.79 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Hederacolchiside A1, isolated from Pulsatilla chinensis, suppresses proliferation of tumor cells by inducing apoptosis through modulating PI3K/Akt/mTOR signaling pathway[1]. Hederacolchiside A1 has antischistosomal activity, affecting parasite viability both in vivo and in vitro[2].

IC_{50} & Target			
	Schistosome	PI3K	mTOR

In Vitro

Hederacolchiside A1 reduces the mitochondrial membrane potential and Bcl-2 protein levels, whereas cleaved caspase-3 was higher[1].

Hederacolchiside A1 effectively inhibits the phosphorylations of phosphatidylinositol 3 kinase (PI3K), protein kinase B (Akt),

	and mammalian target of rapamycin (mTOR) [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	hederacolchiside A1 (3.0, 4.5, and 6.0 mg/kg, ip) can significantly inhibit the weight of tumor in an H22 xenograft model[1]. Hederacolchiside A1 (3.25, 7.5, and 15.0 mg/kg, ig) can significantly inhibit the weight of tumor in nude mice xenograft tumor models using human breast carcinoma MCF-7 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Kaohsiung J Med Sci. 2023 Feb 2.

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REFERENCES

[1]. Yan-Er Wang, et al. Hederacolchiside A1 suppresses proliferation of tumor cells by inducing apoptosis through modulating PI3K/Akt/mTOR signaling pathway. Chinese Herbal Medicines.Volume 10, Issue 2, April 2018, Pages 215-222

[2]. Kang N, et al. Antischistosomal Properties of Hederacolchiside A1 Isolated from Pulsatilla chinensis. Molecules. 2018 Jun 13;23(6).

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