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Zuschläge

- Mindermengenzuschlag
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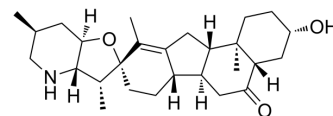
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Peimisine

Cat. No.:	HY-N0214
CAS No.:	19773-24-1
Molecular Formula:	C ₂₇ H ₄₁ NO ₃
Molecular Weight:	427.62
Target:	mAChR; Angiotensin-converting Enzyme (ACE); Apoptosis
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease; Apoptosis
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 10 mg/mL (23.39 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.3385 mL	11.6926 mL	23.3852 mL
		5 mM		0.4677 mL	2.3385 mL	4.6771 mL
		10 mM		0.2339 mL	1.1693 mL	2.3385 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: ≥ 1 mg/mL (2.34 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1 mg/mL (2.34 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (2.34 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Peimisine (Ebeiensine) is a muscarinic M receptor antagonist and angiotensin converting enzyme (ACE) inhibitor. Peimisine shows anti-tumor, anti-inflammatory, antihypertensive activities. Peimisine can induce apoptosis and be used in cough and asthma research ^{[1][2][3]} .
In Vitro	Peimisine (17.43-92.07 µg/mL; 72 h) shows significant cytotoxic effects^[3]. Peimisine (15 µg/mL; 24, 48 and 72 h) induces G₀/G₁ phase arrest and rising apoptosis rate^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Apoptosis Analysis^[3]

Cell Line:	A2780 cells
Concentration:	15 µg/mL
Incubation Time:	24, 48 and 72 hours
Result:	Induced G ₀ /G ₁ phase arrest of A2780 cells in a time-dependent manner.

Cell Cytotoxicity Assay^[3]

Cell Line:	LLC, A2780, HepG2 and A549 cells
Concentration:	17.43-92.07 µg/mL
Incubation Time:	72 hours
Result:	Inhibited LLC, A2780, HepG2 and A549 cells with the IC ₅₀ values of 20.75 µg/mL, 17.43 µg/mL, 92.07 µg/mL, 36.11 µg/mL, respectively.

CUSTOMER VALIDATION

- Phytomedicine. 2023 Jul 2, 154946.
- J Pharm Pharmacol. 2023 Nov 25:rgad091.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Armando Alberola-Die, et al. Peimine, an Anti-Inflammatory Compound from Chinese Herbal Extracts, Modulates Muscle-Type Nicotinic Receptors. Int J Mol Sci. 2021 Oct 19;22(20):11287.
- [2]. Dongdong Wang, et al. Evaluation of antitumor property of extracts and steroidal alkaloids from the cultivated Bulbus Fritillariae ussuriensis and preliminary investigation of its mechanism of action. BMC Complement Altern Med. 2015 Feb 21;15:29.
- [3]. Pan F, et al. Peimisine and peiminine production by endophytic fungus Fusarium sp. isolated from Fritillaria unibracteata var. wabensis. Phytomedicine. 2014 Jul-Aug;21(8-9):1104-9.

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

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