## Peimisine hydrochloride

MedChemExpress

Cat. No.:	HY-N0214A	
CAS No.:	900498-44-4	
Molecular Formula:	C <sub>27</sub> H <sub>42</sub> CINO <sub>3</sub>	
Molecular Weight:	464.08	
Target:	mAChR; Angiotensin-converting Enzyme (ACE); Apoptosis	
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease; Apoptosis	H-CI
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Description	Peimisine (Ebeiensine) hydrochloride is a muscarinic M receptor antagonist and angiotensin converting enzyme (ACE) inhibitor. Peimisine hydrochloride shows anti-tumor, anti-inflammatory, antihypertensive activities. Peimisine can induce apoptosis and be used in cough and asthma research <sup>[1][2][3]</sup> .			
In Vitro	Peimisine (17.43-92.07 μg/mL; 72 h) shows significant cytotoxic effects <sup>[3]</sup> . Peimisine (15 μg/mL; 24, 48 and 72 h) induces G <sub>0</sub> /G <sub>1</sub> phase arrest and rising apoptosis rate <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Apoptosis Analysis <sup>[2]</sup>			
	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 <sup>[2]</sup>			
	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 $\mu g/mL$ , 17.43 $\mu$ g/mL, 92.07 $\mu g/mL$ , 36.11 $\mu g/mL$ , respectively.		

### **CUSTOMER VALIDATION**

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

# Product Data Sheet

### REFERENCES

[1]. 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.

[2]. 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.

[3]. 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.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA