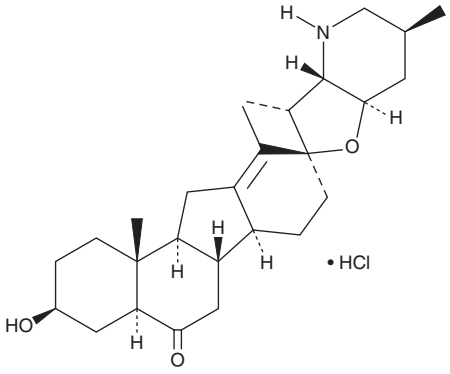
PRODUCT INFORMATION

Peimisine (hydrochloride)

Item No. 26438

CAS Registry No.: 900498-44-4
Formal Name: (2'R,3S,3'R,3'aS,4aS,6'S,6aR,6bS,7'aR,11aS,11bR)-1,2,3,3'a,4,4',4a,5',6',6a,6b,7,7',7'a,8,11,11a,11b-octadecahydro-3-hydroxy-3',6',10,11b-tetramethyl-spiro[9H-benzo[a]fluorene-9,2'(3'H)-furo[3,2-b]pyridin]-5(6H)-one, monohydrochloride
MF: $C_{27}H_{41}NO_3$ • HCl
FW: 464.1
Purity: ≥95%
UV/Vis.: λ_{max}: 204 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Plant/*Fritillaria hupehensis* Hsiao *et* K.C. Hsia



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Peimisine (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the peimisine (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Peimisine (hydrochloride) is soluble in organic solvents such as ethanol and DMSO. The solubility of peimisine (hydrochloride) in these solvents is approximately 1 and 16 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of peimisine (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of peimisine (hydrochloride) is slightly soluble in PBS, pH 7.2. We do not recommend storing the aqueous solution for more than one day.

Description

Peimisine is a steroidal alkaloid originally isolated from *Fritillaria*.[1] It inhibits rabbit lung acetylcholinesterase (AChE) by 20.2% when used at a concentration of 200 µM.

Reference

1. An, J.-J., Zhou, J.-L., Li, H.-J., *et al.* Puqienine E: An angiotensin converting enzyme inhibitory steroidal alkaloid from Fritillaria puqiensis. *Fitoterapia* **81(3)**, 149-152 (2010).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM