



Product Information

Product ID P1634

CAS No. 23496-41-5

Chemical Name (1R,2S,6S,9S,10S,11S,14S,15S,17S,18S,20S,23R,24S)-6,10,23-trimethyl-4-azahexacyclo[12.11.0.0.02,11.04,9.015,24.018,23]pentacosane-10,17,20-triol

Synonym Verticine, Wanpeinine A

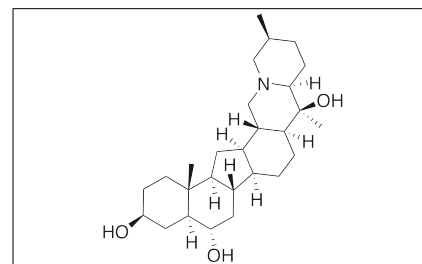
Formula C₂₇H₄₅NO₃

Formula Wt. 431.65

Melting Point

Purity ≥98%

Solubility



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
P1634	5 mg	\$102.00
P1634	10 mg	\$163.40
P1634	25 mg	\$302.30

Store Temp Ambient

Ship Temp Ambient

Description Peimine is a steroidal alkaloid found in a variety of species of the *Fritillaria* plant; it exhibits anti-inflammatory activity and acts as an expectorant and anti-tussive in cough medications. Peimine's anti-tussive activity may result from negative potentiation of transient receptor potential channels TRPV1 and TRPA1 in vitro. Peimine inhibits cough frequency and cough latency in animal models. Additionally, peimine binds the DNA duplex, inhibits production of pro-inflammatory cytokines like TNF- α , IL-6, and IL-1 β , and decreases expression of I κ B kinase, JNK, and p38.

References Yi PF, Wu YC, Dong HB, et al. Peimine impairs pro-inflammatory cytokine secretion through the inhibition of the activation of NF- κ B and MAPK in LPS-induced RAW264.7 macrophages. *Immunopharmacol Immunotoxicol*. 2013 Oct;35(5):567-72. PMID: 23944357.

Ma L, Song F, Liu Z, et al. Study on noncovalent complexes of alkaloids with DNA duplex using electrospray ionization mass spectrometry. *Rapid Commun Mass Spectrom*. 2013 Jan 15;27(1):51-8. PMID: 23239316.

Wang D, Zhu J, Wang S, et al. Antitussive, expectorant and anti-inflammatory alkaloids from *Bulbus Fritillariae Cirrhosae*. *Fitoterapia*. 2011 Dec;82(8):1290-4. PMID: 21958967.

Zhang Y, Sreekrishna K, Lin Y, et al. Modulation of transient receptor potential (TRP) channels by Chinese herbal extracts. *Phytother Res*. 2011 Nov;25(11):1666-70. PMID: 21432926.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.