LKT Laboratories, Inc.

Cyclovirobuxine D

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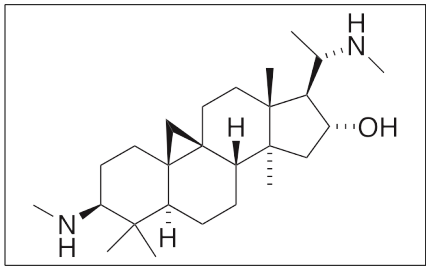
Product Information

Product ID C9711
CAS No. 860-79-7
Chemical Name

Synonym Bebuxine, Cyclovirobuxine

Formula $C_{26}H_{46}N_2O$
Formula Wt. 402.66
Melting Point 219-224°C
Purity ≥97%
Solubility



Bulk quanitites available upon request

Product ID	Size
C9711	25 mg
C9711	100 mg
C9711	500 mg

Store Temp 4°C
Ship Temp Ambient

Description Cyclovirobuxine D is originally found in *Buxus* and displays cardioprotective and anticancer activities. Cyclovirobuxine inhibits the viability of breast cancer cells, inhibiting phosphorylation of Akt and mTOR and inducing autophagy. This compound also shows benefit in the treatment of heart failure but may prolong the QT interval through inhibition of human ether-a-go-go-related (hERG) K+ channel currents. Additionally, cyclovirobuxine D decreases infarct size and venous thrombus size in animal models of myocardial ischemia.

References

Lu J, Sun D, Gao S, et al. Cyclovirobuxine D induces autophagy-associated cell death via the Akt/mTOR pathway in MCF-7 human breast cancer cells. J Pharmacol Sci. 2014;125(1):74-82. PMID: 24758922.

Yu B, Fang TH, Lü GH, et al. Beneficial effect of Cyclovirobuxine D on heart failure rats following myocardial infarction. Fitoterapia. 2011 Sep;82(6):868-77. PMID: 21575690.

Zhao J, Wang Q, Xu J, et al. Cyclovirobuxine D inhibits the currents of HERG potassium channels stably expressed in HEK293 cells. Eur J Pharmacol. 2011 Jun 25;660(2-3):259-67. PMID: 21497594.

Hu D, Liu X, Wang Y, et al. Cyclovirobuxine D ameliorates acute myocardial ischemia by K(ATP) channel opening, nitric oxide release and anti-thrombosis. Eur J Pharmacol. 2007 Aug 13;569(1-2):103-9. PMID: 17555743.