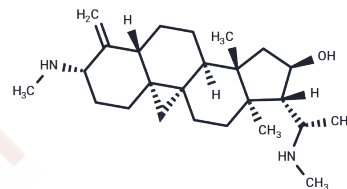


## Cyclobuxine D

## Chemical Properties

CAS No. :	2241-90-9
Formula:	C <sub>25</sub> H <sub>42</sub> N <sub>2</sub> O
Molecular Weight:	386.61
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Cyclobuxine D, a steroidal alkaloid extracted from <i>Buxus microphylla</i> , exhibits significant bradycardia effects on rat hearts and inhibits acetylcholine and Ba <sup>+++</sup> -induced longitudinal muscle contractions in isolated rabbit jejunum.
Targets(IC50)	Others,AChR

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5866 mL	12.9329 mL	25.8659 mL
5 mM	0.5173 mL	2.5866 mL	5.1732 mL
10 mM	0.2587 mL	1.2933 mL	2.5866 mL
50 mM	0.0517 mL	0.2587 mL	0.5173 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- . A. Eshonov, et al. Alkaloids of *Buxus sempervirens*, Crystal and Molecular Structure of Cyclobuxine-D and Imperialine. *Chemistry of Natural Compounds*. 12 January 2014. 49:11791182.
- Kwon, Jun-Tack, et al. Effects of Cyclobuxine D on Drug-Induced Contractions of the Isolated Rat Uterine Muscle and Potassium-Activated Calcium Channels in an Intestinal Smooth Muscle. *The Korean Journal of Pharmacology*. 1988. 24 (1): 103-109.

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