



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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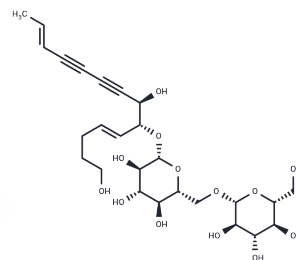
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## Lobetyolinin

## Chemical Properties

|                   |                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------|
| CAS No. :         | 142451-48-7                                                                                                   |
| Formula:          | C <sub>26</sub> H <sub>38</sub> O <sub>13</sub>                                                               |
| Molecular Weight: | 558.57                                                                                                        |
| Appearance:       | no data available                                                                                             |
| Storage:          | store at low temperature, keep away from moisture<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



## Biological Description

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | Lobetyolinin is a compound from Codonopsis pilosula with acetylcholinesterase (AChE) inhibitory and antiarrhythmic activities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Targets(IC50) | Cholinesterase (ChE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| In vivo       | <b>METHODS:</b> Lobetyolinin (50 $\mu$ M, 24 hours) was used to treat zebrafish larvae with 15 $\mu$ M terfenadine for 2 hours, and the heartbeat was recorded under fluorescence. <b>RESULTS:</b> As a result, the heart rate of zebrafish larvae recovered to varying degrees, and Lobetyolinin showed better activity. [1] <b>METHODS:</b> After 1 hour of treatment with 25 $\mu$ M terfenadine, the heart rate decreased and irregular rhythm appeared. After 6 hours of pretreatment with Lobetyolinin, the electrocardiogram of adult zebrafish treated with it was measured. <b>RESULTS:</b> Lobetyolinin restored the heart rate of adult zebrafish, indicating that it has anti-arrhythmic effects. [1] |

## Solubility Information

|            |                                                                                                                            |
|------------|----------------------------------------------------------------------------------------------------------------------------|
| Solubility | Ethanol: 80 mg/mL (8.95 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|----------------------------------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.7903 mL | 8.9514 mL | 17.9029 mL |
| 5 mM  | 0.3581 mL | 1.7903 mL | 3.5806 mL  |
| 10 mM | 0.179 mL  | 0.8951 mL | 1.7903 mL  |
| 50 mM | 0.0358 mL | 0.179 mL  | 0.3581 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.

Reference

Liu H,et al. Screening and Identification of Cardioprotective Compounds From Wenxin Keli by Activity Index Approach and in vivo Zebrafish Model. Front Pharmacol. 2018 Nov 13;9:1288.

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