

## Sequosempervirin B

## Chemical Properties

CAS No.:	864719-17-5
Formula:	C <sub>18</sub> H <sub>20</sub> O <sub>5</sub>
Molecular Weight:	316.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Sequosempervirin B is a natural product from Sequoia sempervirens.
Targets(IC <sub>50</sub> )	Others: None
In vitro	<p><b>METHODS AND RESULTS:</b> Six new norlignans, named Sequosempervirin B, sequosempervirin C, sequosempervirin D, sequosempervirin E, sequosempervirin F, sequosempervirin G (1-6), together with three known norlignans, agatharesinol (7), agatharesinol acetonide (8), and sugiresinol (9), were isolated from the branches and leaves of Sequoia sempervirens. Their structures were determined mainly by high-resolution mass spectroscopy (HR-MS), and various 1D- and 2D-NMR methods, as well as, in the case of 1, by means of X-ray diffraction. <b>CONCLUSIONS:</b> Compound 8 showed anticancer activity towards the A549 non-small-cell lung-cancer cell line (IC<sub>50</sub> = 27.1 microM). The acetone extract of S. sempervirens was found to be antifungal towards Candida glabrata (IC<sub>50</sub> = 15.98 microg/ml), and both the acetone and MeOH extracts inhibited the proteolytic activity of cathepsin B (IC<sub>50</sub> = 4.58 and 5.49 microg/ml, resp.).</p>

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.161 mL	15.803 mL	31.606 mL
5 mM	0.632 mL	3.161 mL	6.321 mL
10 mM	0.316 mL	1.580 mL	3.161 mL
50 mM	0.063 mL	0.316 mL	0.632 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Norlignans from Sequoia sempervirens. Chem Biodivers. 2005 Apr;2(4):497-505.

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481