

## Verticilide

Cat. No.:	HY-N7491
CAS No.:	693778-57-3
Molecular Formula:	C <sub>44</sub> H <sub>76</sub> N <sub>4</sub> O <sub>12</sub>
Molecular Weight:	853.09
Sequence:	cyclo[N(Me)Ala-D-ONle(Me)-N(Me)Ala-D-ONle(Me)-N(Me)Ala-D-ONle(Me)-N(Me)Ala-D-ONle(Me)]
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

Verticilide is a ryanodine-binding inhibitor and inhibits ryanodine binding to ryanodine receptors in the cockroach at an IC<sub>50</sub> value of 4.2 μM (whereas inhibition against mouse ryanodine receptors was weak (IC<sub>50</sub>=53.9 μM))<sup>[1]</sup>.

### REFERENCES

[1]. Kazuro Shiomi, et al. Verticilide, a new ryanodine-binding inhibitor, produced by Verticillium sp. FKI-1033. J Antibiot (Tokyo). 2010 Feb;63(2):77-82.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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