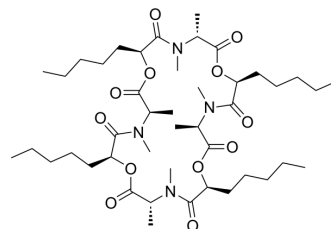


## Ent-(+)-Verticilide

Cat. No.:	HY-N7491A
CAS No.:	2056011-05-1
Molecular Formula:	C <sub>44</sub> H <sub>76</sub> N <sub>4</sub> O <sub>12</sub>
Molecular Weight:	853.09
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

ent-(+)-verticilide is a potent and selective inhibitor of cardiac ryanodine receptor (RyR2) calcium release channels with antiarrhythmic activity. ent-(+)-verticilide inhibits RyR2-mediated diastolic Ca<sup>2+</sup> leak and exhibits higher potency and a distinct mechanism of action compared with the Dantrolene and Tetracaine. ent-(+)-verticilide is a useful tool to investigate the therapeutic potential of targeting RyR2 hyperactivity in heart and brain pathologies<sup>[1]</sup>.

### REFERENCES

[1]. Suzanne M Batiste, et al. Unnatural verticilide enantiomer inhibits type 2 ryanodine receptor-mediated calcium leak and is antiarrhythmic. Proc Natl Acad Sci U S A. 2019 Mar 12;116(11):4810-4815.

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

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