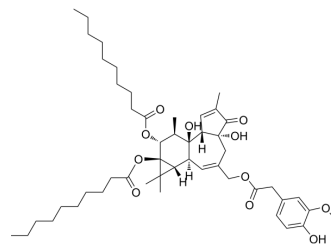


PDDHV

Cat. No.:	HY-130358
CAS No.:	179469-40-0
Molecular Formula:	C ₄₉ H ₇₂ O ₁₁
Molecular Weight:	837.09
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

PDDHV is a calcium absorption inducer and may achieve 45Ca^{2+} influx by stimulating vanillic acid receptor VR1. PDDHV induces 45Ca^{2+} uptake (EC_{50} : 70 nM) in rat dorsal root ganglion neurons (expressing native vanilloid receptors) and calcium mobilization (EC_{50} : 125 nM) in VR1-transfected CHO cells. PDDHV also inhibits [^3H]-resiniferatoxin (RTX) binding to the dorsal root ganglion membrane in rats^[1].

REFERENCES

[1]. Szallasi A, Szabo T, Biro T, et al. Resiniferatoxin-type phorboid vanilloids display capsaicin-like selectivity at native vanilloid receptors on rat DRG neurons and at the cloned vanilloid receptor VR1[J]. British journal of pharmacology, 1999, 128(2): 428-434.

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

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