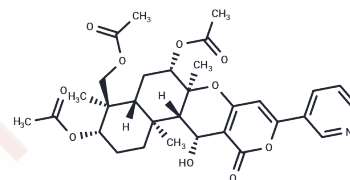


## Pyripyropene A

## Chemical Properties

CAS No. :	147444-03-9
Formula:	C <sub>31</sub> H <sub>37</sub> N <sub>1</sub> O <sub>10</sub>
Molecular Weight:	583.63
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Pyripyropene A is a potent and selective inhibitor of sterol O-acyltransferase 2 (SOAT2) / acyl-coenzyme A:cholesterol acyltransferase 2 (ACAT2) with an IC <sub>50</sub> of 0.07 μM.
Targets(IC <sub>50</sub> )	Others, Acyltransferase
In vitro	Pyripyropene A inhibits VEGF (20 ng/ml)-induced migration and tubular formation of HUVECs in dose-dependent fashion. Pyripyropene A do not show growth inhibitory effects against KB3-1, K562 and Neuro2A cells. Pyripyropene A exhibits anti-proliferative activity against HUVECs (IC <sub>50</sub> value of 1.8 μM)[1].
In vivo	Pyripyropene A-treated mice display reduction of atherogenic lesion areas in the aortae and heart. Pyripyropene A inhibits the hepatic e acyl-coenzyme A:cholesterol acyltransferase 2 (ACAT2) activity in vivo[3]. Pyripyropene A displays a half-life (t <sub>1/2</sub> ) of 0.693/λ, where λ represented the terminal slope of the log-linear portion of concentration time profile[4].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7134 mL	8.5671 mL	17.1341 mL
5 mM	0.3427 mL	1.7134 mL	3.4268 mL
10 mM	0.1713 mL	0.8567 mL	1.7134 mL
50 mM	0.0343 mL	0.1713 mL	0.3427 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Hayashi A, et al. Pyripyropenes, fungal sesquiterpenes conjugated with alpha-pyrone and pyridine moieties, exhibits anti-angiogenic activity against human umbilical vein endothelial cells. *Biol Pharm Bull.* 2009 Jul;32(7):1261-5.

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Ohshiro T, et al. Pyripyropene A, an acyl-coenzyme A:cholesterol acyltransferase 2-selective inhibitor, attenuates hypercholesterolemia and atherosclerosis in murine models of hyperlipidemia. *Arterioscler Thromb Vasc Biol.* 2011 May;31(5):1108-15.

Lee KR, et al. Determination of *Penicillium griseofulvum*-oriented pyripyropene A, a selective inhibitor of acyl-coenzyme A:cholesterol acyltransferase 2, in mouse plasma using liquid chromatography-tandem mass spectrometry and its application to pharmacokinetic studies. *Biomed Chromatogr.* 2019 Feb;33(2):e4388.

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