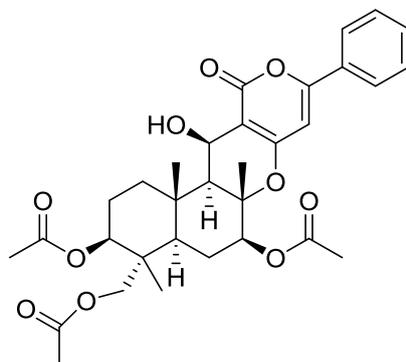


Phenylpyropene A

Code No.: **BIA-P1815**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

CAS #	: 189564-20-3
Molecular Formula	: C ₃₂ H ₃₈ O ₁₀
Molecular Weight	: 582.6
Source	: <i>Penicillium sp.</i>
Appearance	: White residue
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Phenylpyropene A is a meroterpenoid isolated from *Penicillium griseofulvum* by researchers at the Korean Research Institute of Bioscience and Biotechnology in 2002. Phenylpyropene A inhibits conversion of cholesterol to cholesteryl esters via inhibition of acyl-CoA:cholesterol acyltransferase (ACAT). Phenylpyropene A also inhibits diacylglycerol acyltransferase (DGAT), the terminal step in triglyceride synthesis and essential for intestinal absorption and adipose tissue formation. Phenylpyropene A has significant cytotoxicity against Sf9 cells from the army worm, *Spodoptera frugiperda*.

References

1. Phenylpyropene A and B, new inhibitors of acyl-CoA:cholesterol acyltransferase produced by *Penicillium griseofulvum* F1959. Kwon O.E. et al., J. Antibiot. 2002, 55, 1004.
2. Inhibition of diacylglycerol acyltransferase by phenylpyropenes produced by *Penicillium griseofulvum* F1959. Lee S.W. et al., J. Microbiol. Biotech. 2008, 18, 1785.
3. Five new cytotoxic metabolites from the marine fungus *Neosartorya pseudofischeri*. Lan W.J. et al., Marine Drugs 2016, 14, 18.