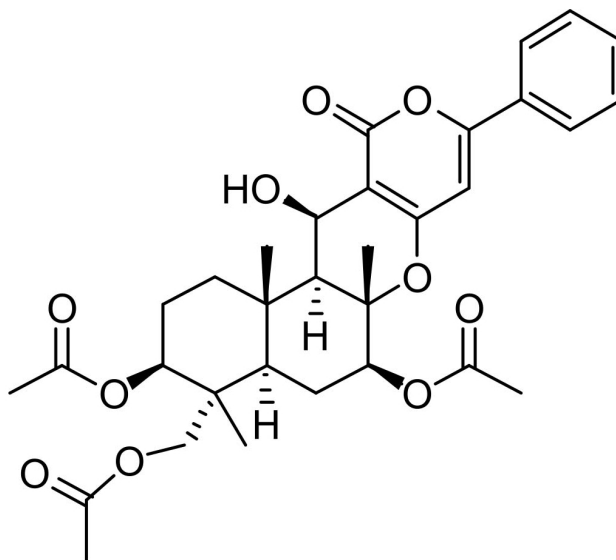


## Phenylpyropene A

Code No.: BIA-P1815

Pack sizes.: 1mg, 5mg



Synonyms:

-

## Specifications

CAS #	: <b>189564-20-3</b>
Molecular Formula	: <b>C32H38O10</b>
Molecular Weight	: <b>582.64</b>
Source	: -
Appearance	: <b>White residue</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO.</b>

## 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.