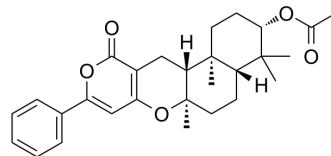


Phenylpyropene C

Cat. No.:	HY-115734
CAS No.:	419532-92-6
Molecular Formula:	C ₂₈ H ₃₄ O ₅
Molecular Weight:	450.57
Target:	Acyltransferase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Phenylpyropene C (S14-95), a JAK/STAT pathway inhibitor, can inhibit IFN- γ mediated expression of the reporter gene (IC ₅₀ =5.4~10.8 μ M). Phenylpyropene C also is an inhibitor of acyl-CoA, with an IC ₅₀ of 16.0 μ M ^{[1][2]} .
IC₅₀ & Target	ACAT 16.0 μ M (IC ₅₀)
In Vitro	<p>Phenylpyropene C (0.1-1000 μM) inhibits ACAT activity with the IC₅₀ of 16.0 μM in a dose dependent fashion^[1].</p> <p>Phenylpyropene C inhibits the IFN-γ mediated expression of the reporter gene with IC₅₀s of 5.4 μM to approximately 10.8 μM^[2].</p> <p>Phenylpyropene C inhibits the expression of the proinflammatory enzymes COX-2 and NOS II at 10.8 μM in LPS/IFN-γ stimulated J774 mouse macrophages^[2].</p> <p>Phenylpyropene C inhibits the activation of the p38 MAP kinase, which is involved in the inducible expression of many proinflammatory genes^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Rho MC, et, al. Phenylpyropene C, a new inhibitor of acyl-CoA: cholesterol acyltransferase produced by *Penicillium griseofulvum* F1959. *J Antibiot (Tokyo)*. 2002 Feb;55(2):211-4.
- [2]. Erkel G, et, al. S14-95, a novel inhibitor of the JAK/STAT pathway from a *Penicillium* species. *J Antibiot (Tokyo)*. 2003 Apr;56(4):337-43.

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

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