Squalene synthase-IN-1

Cat. No.: HY-149405

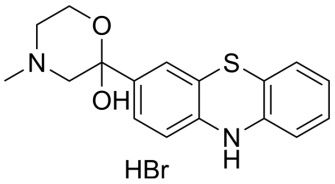
Molecular Formula: $C_{17}H_{19}BrN_2O_2S$

Molecular Weight: 395.31

Target: Others

Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Squalene synthase-IN-1 (compound 1) is a potent antihyperlipidemic agent acting through Squalene Synthase inhibition. Squalene synthase-IN-1 exhibits an outstanding antioxidant and anti-inflammatory activity. Squalene synthase-IN-1 displays a significant reduction not only of glucose but also of oxidative stress levels, while it did not cause any toxicity[1].

In Vivo

Squalene synthase-IN-1 (compound 1) (56 μmols/kg, i.p.,twice daily) displays a powerful antihypercholesterolemic/antihyperlipidemic effect decreasing TC and LDL levels, and increasing HDL levels[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male ApoE$^{-/-}$ mice (10-12 weeks old, 24 to 28 g)[1]
Dosage:	56 μmols/kg (22.14 mg/kg)
Administration:	i.p.,twice daily
Result:	Displayed a powerful antihypercholesterolemic/antihyperlipidemic effect decreasing TC and LDL levels by 53% and 76%, respectively, and increasing HDL levels more than 100%.

REFERENCES

[1]. Matralis AN, et al. Effect of a new squalene synthase inhibitor on an ApoE-/- mouse model of atherosclerosis. Bioorg Med Chem. 2023 Jul 15;90:117378.

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