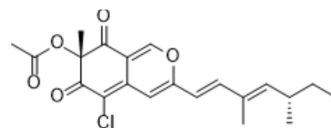


Sclerotiorin

Cat. No.:	HY-116866
CAS No.:	549-23-5
Molecular Formula:	C ₂₁ H ₂₃ ClO ₅
Molecular Weight:	390.86
Target:	Lipoxygenase; Fungal
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sclerotiorin is a reversible and uncompetitive inhibitor against soybean lipoxygenase-1 (LOX-1) (IC ₅₀ : 4.2 μM). Sclerotiorin also shows antioxidant activity by scavenging free radical (ED ₅₀ : 0.12 μM), and nonenzymatic lipid peroxidation inhibition activity. Sclerotiorin has antifungal activity, and also inhibits platelet aggregation. Sclerotiorin can be purified from the fermented broth of <i>Penicillium frequentans</i> ^{[1][2]} .
In Vitro	Sclerotiorin (10 μM) slows Aβ ₄₂ fibrillogenesis in vitro, detected with 6E10 antibody ^[2] . Sclerotiorin shows narrow spectrum activity against Gram positive bacteria, with MIC range of 128-1028 μg/mL ^[3] . Sclerotiorin inhibits cholesteryl ester transfer protein (CETP) activity in vitro (IC ₅₀ : 19.4 μM) ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

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