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Effects of 32-Oxygenated Lanosterol Derivatives on 3-Hydroxy-3-methylglutaryl Coenzyme A Reductase Activity and Cholesterol Biosynthesis from 24,25-Dihydrolanosterol*

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The effects of 32-oxygenated lanosterol derivatives on 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) reductase activity and cholesterol biosynthesis from [24,25-³H]-24,25-dihydrolanosterol were studied. Among the derivatives, 3 β -hydroxy-lanost-7-en-32-oic acid was the most active in depressing HMG-CoA reductase activity (IC₅₀ : 0.7 μ M) and cholesterol biosynthesis (IC₅₀ : 0.4 μ M) from 24,25-dihydrolanosterol.

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