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**Effects of 3 $\beta$ -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 3 $\beta$ -oxygenated lanosterol derivatives on 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) reductase activity and cholesterol biosynthesis from [24,25- $^3\text{H}$ ]-24,25-dihydrolanosterol were studied. Among the derivatives, 3 $\beta$ -hydroxy-lanost-7-en-3 $\beta$ -oic acid was the most active in depressing HMG-CoA reductase activity ( $\text{IC}_{50}$  : 0.7  $\mu\text{M}$ ) and cholesterol biosynthesis ( $\text{IC}_{50}$  : 0.4  $\mu\text{M}$ ) from 24,25-dihydrolanosterol.

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