

Lanosterol biosynthesis pathway in GtoPdb v.2025.3

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Abstract

Lanosterol is a precursor for cholesterol, which is synthesized primarily in the liver in a pathway often described as the mevalonate or HMG-CoA reductase pathway. The first two steps (formation of [acetoacetyl CoA](#) and the mitochondrial generation of [\(S\)-3-hydroxy-3-methylglutaryl-CoA](#)) are also associated with oxidation of fatty acids.

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