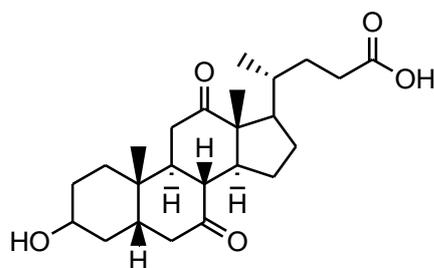
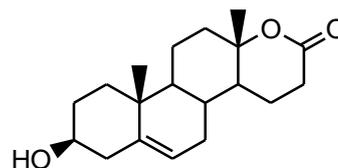


Abstract

The objective of this research was to investigate the functional group modification of steroid compounds: pregnenolone **1** and dehydrocholic acid **14** by biotransformation using *Fusarium solani* TISTR 3436 and *Chaetomium globosum* TISTR 3039 strain as biocatalysts. The results found that dehydrocholic acid **14** was converted to 3-hydroxy-7,12-diketo-5 β -cholan-24-oic acid **25** by enzyme from *Fusarium solani* TISTR 3436. This mold showed different affinities for the substrate and selectivities of attack in particular regio- and stereoselectively reduced the 3- keto group. The pregnenolone **1** was transformed by enzyme from *Chaetomium globosum* TISTR 3039 to 3 β -hydroxy-17 α -oxa-D-homo-androst-5-en-17-one **17** in low yield.



25



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