

Manufacturing Process Flowchart Budesonide, Micronized, USP (Cat#B4040)

Step 1 Oxidation reaction



Chemical name: 11β-hydroxy-21-acetoxypregna-1,4,16-triene-3,20-dione
Code: BD-04
Chemical Formula: C₂₃H₂₈O₅
Mol. Wt.: 384.5

Chemical name: 11β,16α,17α-trihydroxy-21-acetoxypregna-1,4-diene-3,20-dione
Code: BD-05
Chemical Formula: C₂₃H₃₀O₇
Mol. Wt.: 418.5

Step 2 Alcoholysis reaction



Chemical name: 11β,16α,17α-trihydroxy-21-acetoxypregna-1,4-diene-3,20-dione
Code: BD-05
Chemical Formula: C₂₃H₃₀O₇
Mol. Wt.: 418.5

Chemical name: 11β,16α,17α,21-tetrahydroxypregna-1,4-diene-3,20-dione
Code: BD-06
Chemical Formula: C₂₁H₂₈O₈
Mol. Wt.: 376.4

Step 3 Condensation reaction



Chemical name: 11β,16α,17α,21-tetrahydroxypregna-1,4-diene-3,20-dione
Code: BD-06
Chemical Formula: C₂₁H₂₈O₈
Mol. Wt.: 376.4

Chemical name: 16α,17α-butylidenedioxy-11β,21-dihydroxypregna-1,4-diene-3,20-dione
Code: BD
Chemical Formula: C₂₅H₃₄O₆
Mol. Wt.: 430.5

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