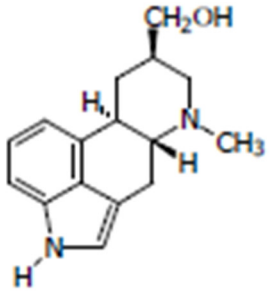
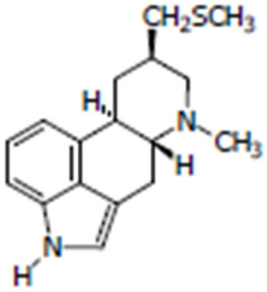
Manufacturing Process Flowchart - Pergolide Mesylate, USP (Catalog No. P3682)

Flow chart of pergolide base synthesis



DIHYDROLYSERGOL
(DIHYDROELYMOCLAVINE)
SM-826440
Mr = 256.35 g/mol; $C_{16}H_{20}N_2O$

1. N,N-DMF, pyridine, MsCl
2. ethanol, KOH, CH_3SH
3. H_2O



6-METHYLPERGOLIDE
Mr = 286.43 g/mol; $C_{17}H_{22}N_2S$

1. dichloromethane, K_2CO_3, BrCN
2. H_2O, NaOH, NH_4OH, methanol

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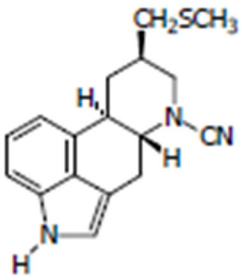
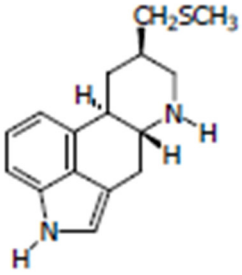


6-CYANOPERGOLIDE

Mr = 297.42 g/mol; $C_{17}H_{19}N_3S$

1. n-propanol, NaOH
2. H_2O



6-NORPERGOLIDE

Mr = 272.41 g/mol; $C_{16}H_{20}N_2S$

1. N,N-DMF, propanal, formic acid
2. H_2O, methansulfonic acid, NH_4OH

PERGOLIDE BASE

Mr = 314.49 g/mol; $C_{19}H_{26}N_2S$

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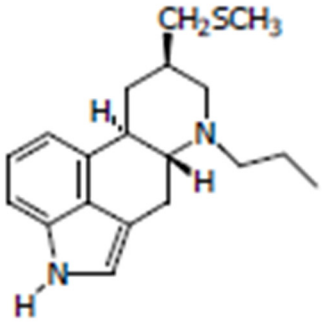
Flow chart of Pergolide Mesylate synthesis

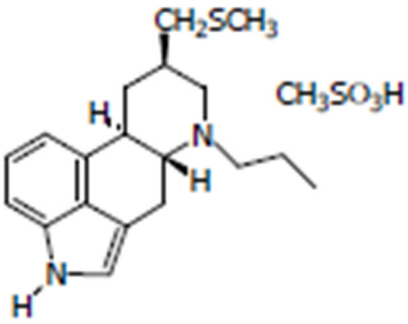


PERGOLIDE BASE

Mr = 314.49 g/mol; $C_{19}H_{26}N_2S$

ethanol, H_2O,

methanesulfonic acid



PERGOLIDE MESYLATE

SV-702220

Mr = 410.59 g/mol; $C_{20}H_{30}N_2O_3S_2$