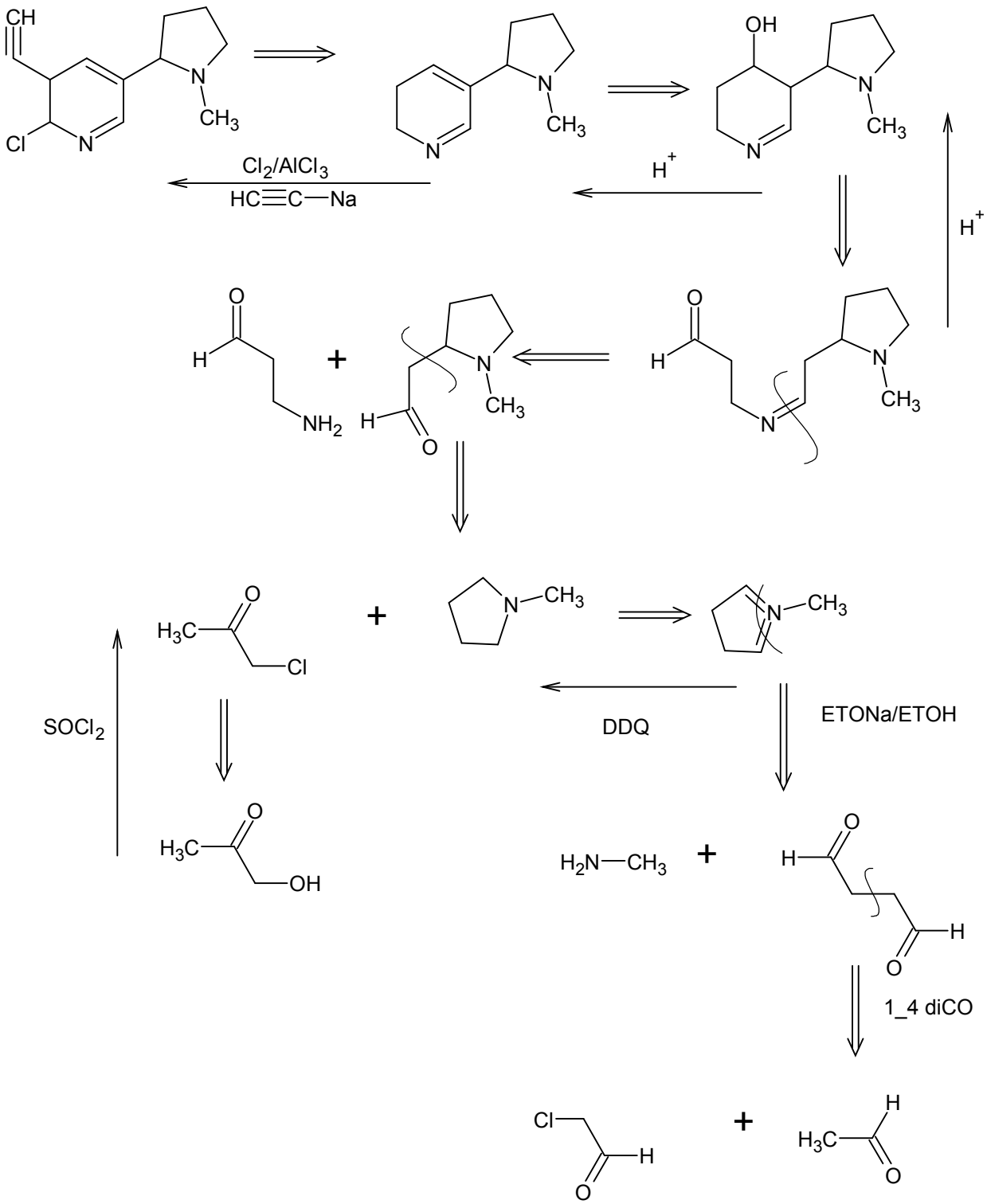
CH
Cl
N
CH3
Cl2/AlCl3
HC≡C—Na
OH
H+
H+
O
H
NH2
+
H
O
N
CH3
H3C
Cl
SOCl2
H3C
OH
DDQ
ETONa/ETOH
H2N—CH3
+
1_4 diCO
Cl
H
O
+
H3C
H
O

CH_4