Total Synthesis of Yuzurine-type Alkaloid Daphgraciline

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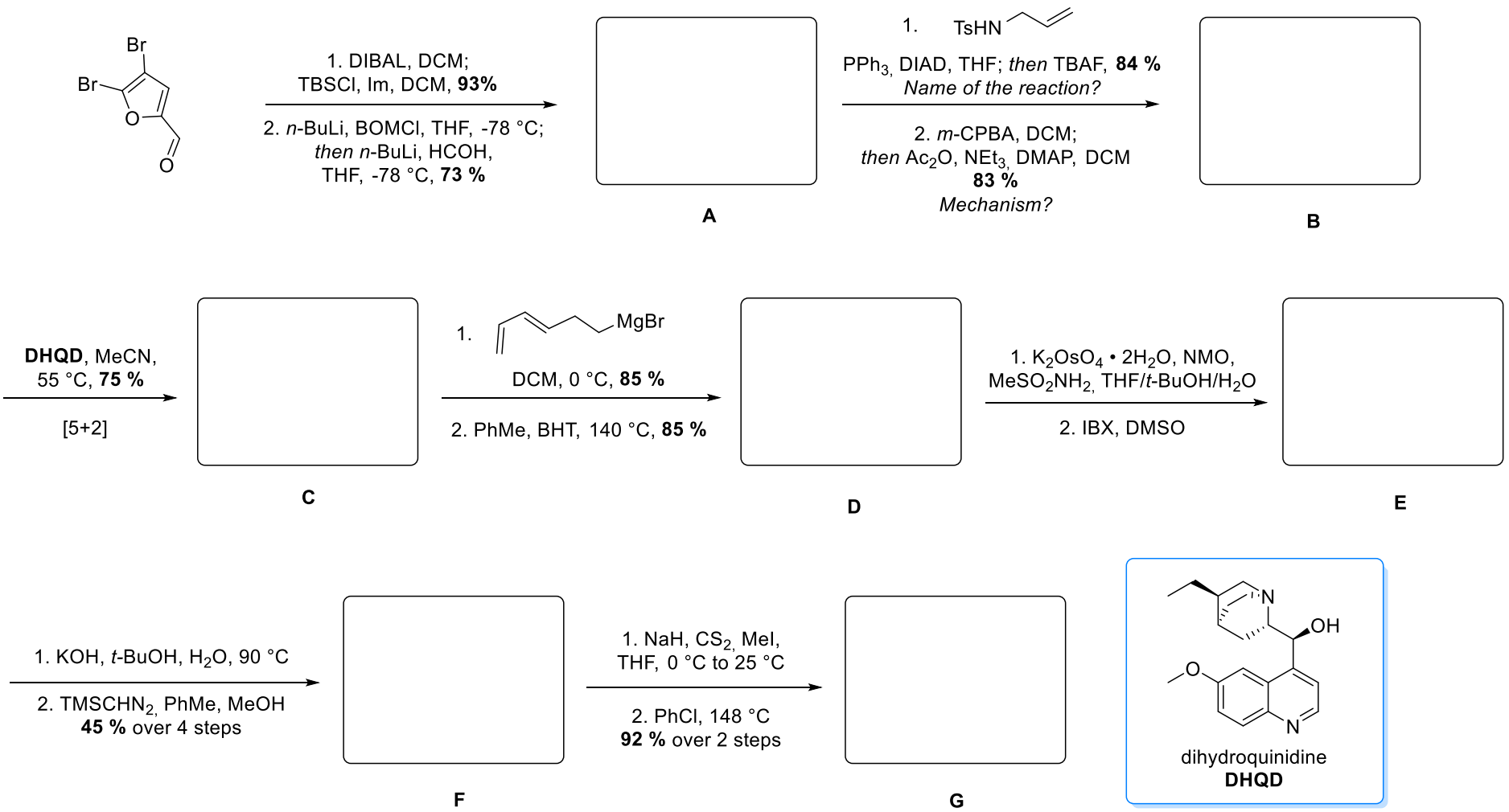

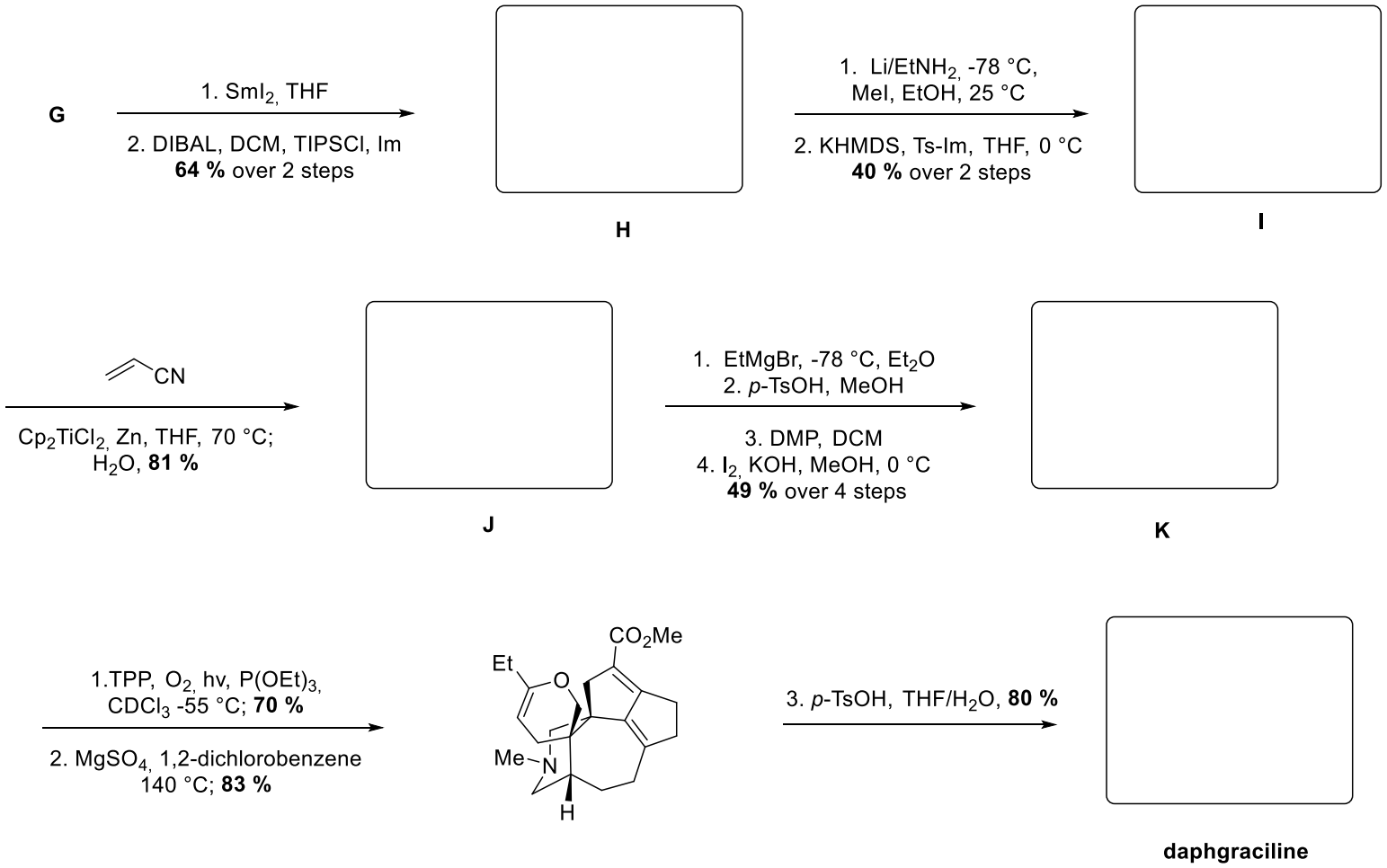
G
1. SmI2, THF
2. DIBAL, DCM, TIPSCl, Im
64 % over 2 steps
H
1. Li/EtNH2, -78 °C,
MeI, EtOH, 25 °C
2. KHMDS, Ts-Im, THF, 0 °C
40 % over 2 steps
I
CN
Cp2TiCl2, Zn, THF, 70 °C;
H2O, 81 %
J
1. EtMgBr, -78 °C, Et2O
2. p-TsOH, MeOH
3. DMP, DCM
4. I2, KOH, MeOH, 0 °C
49 % over 4 steps
K
1.TPP, O2, hv, P(OEt)3,
CDCl3 -55 °C; 70 %
2. MgSO4, 1,2-dichlorobenzene
140 °C; 83 %
CO2Me
Et
O
Me
N
H
3. p-TsOH, THF/H2O, 80 %
daphgraciline