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Aleutianamine

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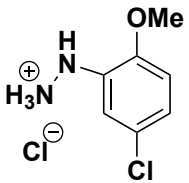


H_2SO_4, 2,3-dihydrofuran, DMA/H_2O, 60 °C, 29%

Name?

A

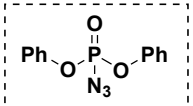
1. DIAD, PPh_3, DPPA, THF, 0 °C → 23 °C
2. TsCl, Bu_4NHSO_4, NaOH, CH_2Cl_2/H_2O, 23 °C
3. PPh_3, H_2O, THF, 23 °C

52%, 3 steps

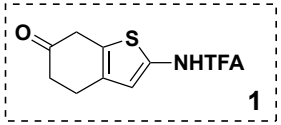
B

BrettPhos Pd G_4 (5 mol%), BrettPhos (5 mol%), K_3PO_4, *t*-BuOH, 100 °C, 90%

C



DPPA



1

1. **1**, $InCl_3$, Et_3SiH, MeOH, 23 °C
2. NBS, THF, −78 °C → 23 °C

49%, 2 steps

D

1. $Pd(dba)_2$ (15 mol%), XPhos (25 mol%), K_2CO_3, dioxane, 100 °C, 60%
2. TsCl, pyridine, CH_2Cl_2, 23 °C, 90%

E

1. NaOH, $THF/Et_2O/H_2O$, 75 °C, 83%
2. TBSOTf, Et_3N, CH_2Cl_2, 23 °C
3. DDQ, 2,6-lutidine, PhMe, 0 °C

53%, 2 steps

F

1. OsO_4, pyridine, 23 °C, 88%
2. CDI, DMAP, CH_2Cl_2, 23 °C, 92%

G

$Pd(PPh_3)_4$ (10 mol%), dppe (10 mol%), THF, 66 °C, 94%

H

1. Tf_2O, Et_3N, CH_2Cl_2, −78 °C, 94%
2. $[Cp^*Ru(MeCN)_3]PF_6$, LiBr, NMP, 100 °C, 38%

I

1. DIBAL, CH_2Cl_2, −78 °C
2. CAN, $MeCN/H_2O$, 0 °C

then NH_4OH, O_2, 0 °C
then TFA, 23 °C
3. NaOMe, MeOH/THF, 0 °C

33%, 3 steps

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