



**S2.** a) EDCI\*HCl, Et<sub>3</sub>N, DCM, rt, 90%; b) TEMPO, NaOCl, KBr, NaHCO<sub>3</sub>, DCM, 0C, 90%; c) H<sub>2</sub>, Pd/C, MeOH, rt; d) TsOH\*H<sub>2</sub>O, HC(OMe)<sub>3</sub>, MeOH, 40C; e) H<sub>2</sub>, Pd/C, MeOH, rt; f) HCl, acetone, rt, 87% (3 steps); g) TBSOTf, Et<sub>3</sub>N, DCM, 0C, 99%.

**S3.** a) BF<sub>3</sub>\*OEt<sub>2</sub>, DCM, -40C, 80%; b) Tf<sub>2</sub>O, py, DCM, 0C, 87%; H<sub>2</sub>, Pd/C, EyOAc, rt (dr 14:1); d) CH<sub>2</sub>CHMgBr, THF, -78C; e) SOBr<sub>2</sub>, py, DCM, -40C, 67% (3 steps); f) LiBHEt<sub>3</sub>, THF, -20C, 92%; g) HF\*py, THF, rt, 97%; h) Dess-Martin periodinane, DCM, rt, 84%; i) xxi, THF, -78C; j) Dess-Martin periodinane, DCM, reflux, 84% (2 steps); k) Pd<sub>2</sub>(dba)<sub>3</sub>, (o-tol)<sub>3</sub>P, Et<sub>3</sub>N, toluene, reflux, 96%.

**S4.** a) NH<sub>2</sub>OH\*HCl, NaOAc, EtOH, 50C, 87%; b) MsCl, Et<sub>3</sub>N, DCM, rt, 82%; c) TiCl<sub>4</sub>, DCM, rt, 86%; d) Boc<sub>2</sub>O, DMAP, MeCN, rt, 96%; e) MeLi, THF, -78C, 59%; f) O<sub>3</sub>, MeOH, DCM, -78C; Me<sub>2</sub>S; g) Jones reagent, acetone, 0C, 70% (2 steps); h) TsOH\*H<sub>2</sub>O, Na<sub>2</sub>SO<sub>4</sub>, toluene, reflux, 91%.