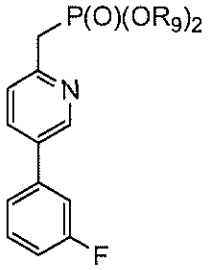
Claims

1. A process for preparing Compound 16:



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said process comprising the steps of:

(a) treating 5-bromo-2-methylpyridine N-oxide with the anhydride of trifluoroacetic acid to produce intermediate Compound 35:

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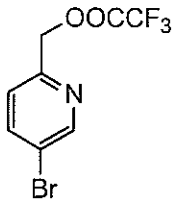

(b) treating the non-isolated intermediate Compound 35 with an alcohol at an elevated temperature to produce Compound 36:

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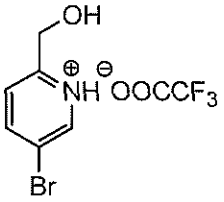

(c) treating Compound 36 with a leaving group reagent to produce Compound 37:

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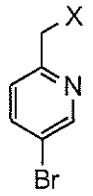

(d) treating Compound 37 with a phosphite reagent to produce Compound 38 or a salt thereof:

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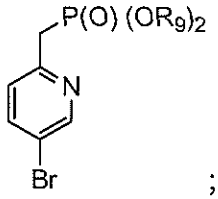
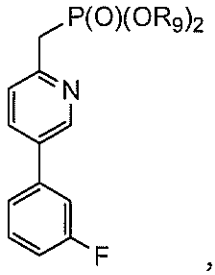


; and,

(e) treating Compound 38 with 3-$FC_6H_4B(OR_{11})_2$, to produce Compound 16 using PdL_n or Pd/C to form compound 16



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wherein:

R_{11} is H, C_1 to C_{10} alkyl, aryl, or heteroaryl;

L is PR'_3 or $NR"_3$, wherein R'_3 is selected from alkyl, aryl and alkylaryl, and R" is selected from the group consisting of alkyl, aryl, and alkylaryl; and

n is between 0 and 8.

2. The process of claim 1, wherein said alcohol is selected from the group consisting of methanol, ethanol, propanol, isopropanol, butanol, sec-butanol, t-butanol, pentanol, and octanol, and mixtures of 2 or more thereof.

3. The process of claim 1 or claim 2, wherein said elevated temperature is about 20 to about 80°C, preferably about 30 to 70°C, more preferably about 45 to about 55°C

4. The process of claim 1, wherein said temperature is between about 45 and about 55°C.

5. The process of claim 1, wherein said leaving group reagent is selected from the group of consisting $SOCl_2$, $SOBr_2$, PCl_3, PBr_3, PCl_5, PBr_5, R_8COCl, and R_8SO_2Cl, and wherein R_8 is selected from the group consisting of C_1 to C_{10} alkyl, aryl, and arylalkyl.

6. The process of claim 1, wherein said phosphite reagent is prepared from a strong base and $(R_9O)_2P(O)H$, wherein R_9 is selected from the group consisting of C_1-C_{10} alkyls, aryls, heteroaryls, and arylalkyls.

7. The process of claim 4, wherein said strong base is selected from the group consisting of metal hydrides, $R_{10}Li$, and $((R_{10})_3Si)_2Li$, wherein R_{10} is selected from C_1 to C_{10} alkyl and aryl groups.

8. The process of claim 1, wherein R_{11} is H.

9. The process of claim 1, wherein L is PPh_3.

10. The process of claim 1, wherein n is between 0 and 4.