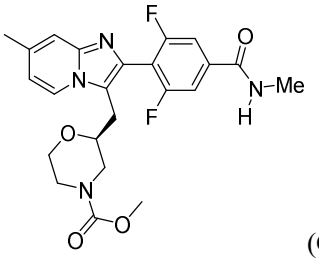
CLAIMS

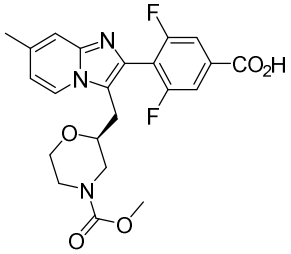
WHAT IS CLAIMED IS:

1. A process for the preparation of methyl (S)-2-((2-(2,6-difluoro-4-(methylcarbamoyl)phenyl)-7-methylimidazo[1,2-a]pyridin-3-yl)methyl)morpholine-4-carboxylate (Compound 1):



(Compound 1),

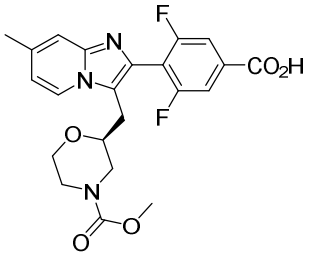
comprising contacting a compound with the structure:



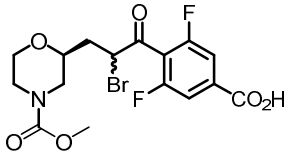
with an amide coupling reagent and methylamine or a salt of methylamine.

2. The process of claim 1, wherein the amide coupling reagent is carbonyldiimidazole or propanephosphonic acid anhydride (T3P).

3. The process of any one of claims 1 or 2, wherein the compound with the structure:

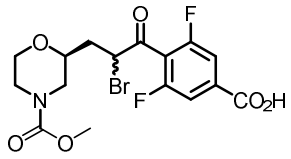


is prepared by a process comprising contacting a compound with the structure:

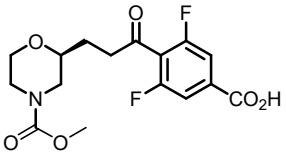


with 2-amino-4-methylpyridine and optionally sodium borohydride.

4. The process of any one of claims 1-3, wherein the compound with the structure:



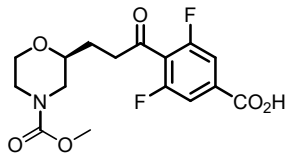
is prepared by a process comprising contacting a compound with the structure:



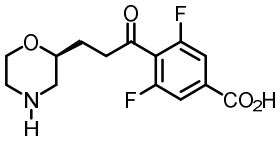
with a brominating reagent.

5. The process of claim 4, wherein the brominating agent is N-bromosuccinimide in the presence of acid.

6. The process of any one of claims 1-5, wherein the compound with the structure:



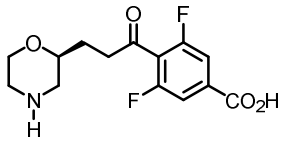
is prepared by a process comprising contacting a compound with the structure:



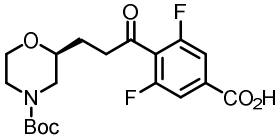
with methyl chloroformate and a base.

7. The process of claim 6, wherein the base is sodium bicarbonate.

8. The process of any one of claims 1-7, wherein the compound with the structure:



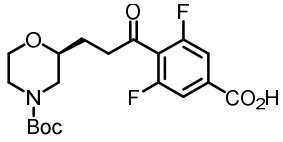
is prepared by a process comprising contacting a compound with the structure:



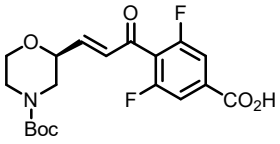
with hydrogen chloride in the presence of a solvent.

9. The process of claim 8, wherein the solvent is ethyl acetate.

10. The process of any one of claims 1-9, wherein the compound with the structure:



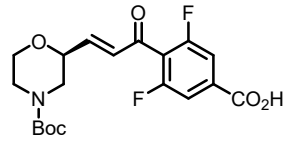
is prepared by a process comprising contacting a compound with the structure:

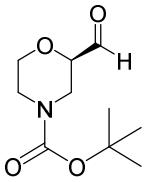
 with a hydrogenation catalyst and hydrogen.

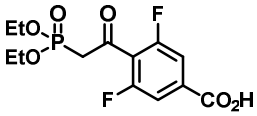
11. The process of claim 10, wherein the hydrogenation catalyst is palladium on carbon, palladium hydroxide, rhodium on carbon, rhodium on alumina, platinum oxide, or platinum on carbon.

12. The process of claim 11, wherein the hydrogenation catalyst is palladium on carbon.

13. The process of any one of claims 1-12, wherein the compound with the structure:

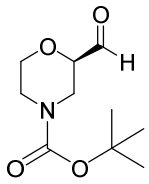
 is prepared by a process comprising contacting a compound with the structure:

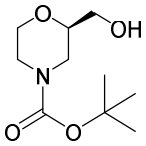
 with a compound with the structure:

 with a base.

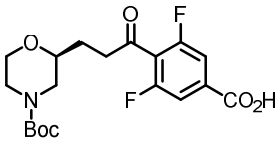
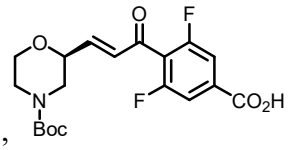
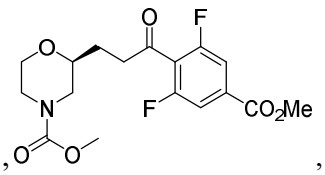
14. The process of claim 13, wherein the base is a mixture of potassium bicarbonate and potassium carbonate.

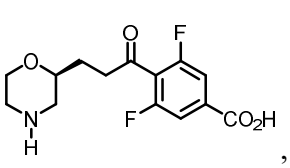
15. The process of any one of claims 1-14, wherein the compound with the structure:

 is prepared by a process comprising contacting a compound with the structure:

 with 2,2,6,6-tetramethylpiperidine 1-oxyl or T3P.

16. A compound having the structure:

, , ,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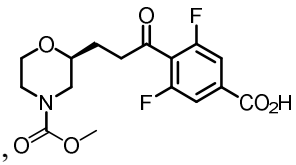
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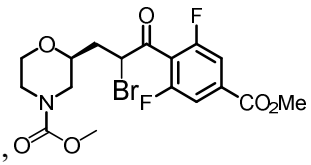
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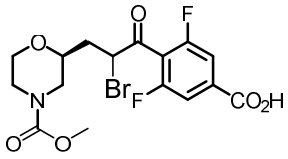
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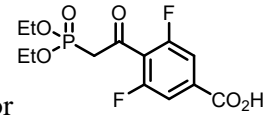
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