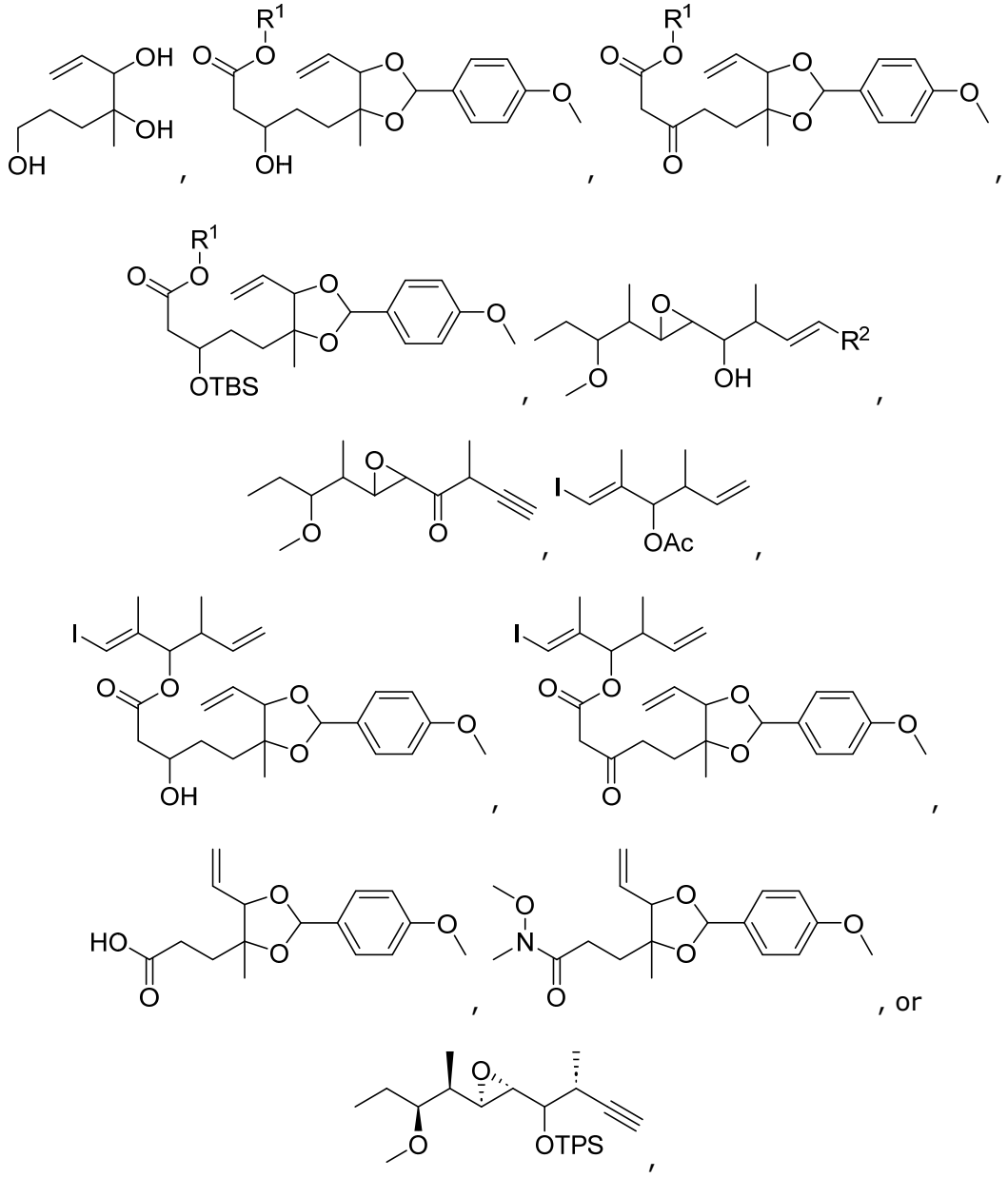
CLAIMS

We claim:

1. A compound, selected from:



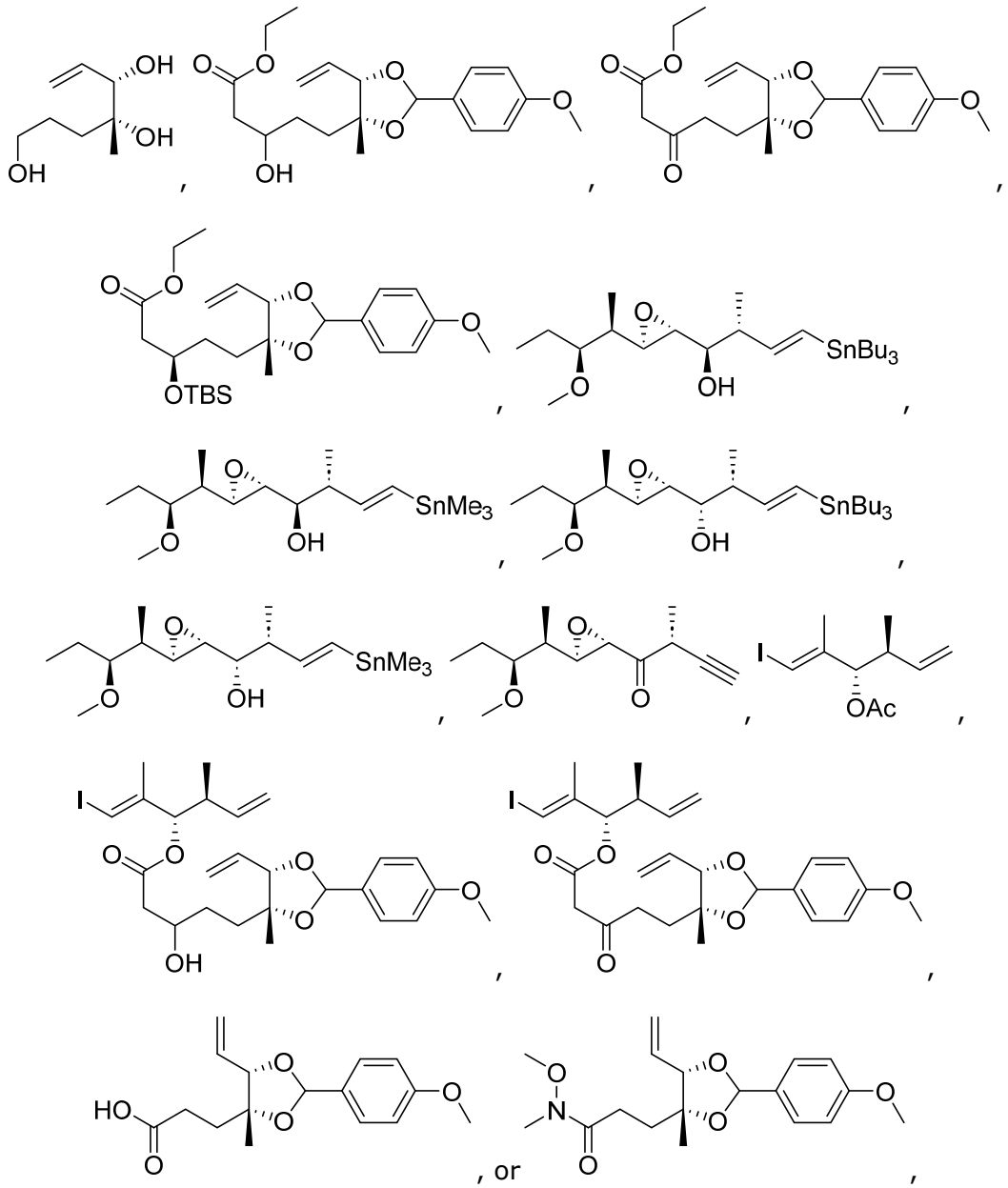
or a salt thereof,

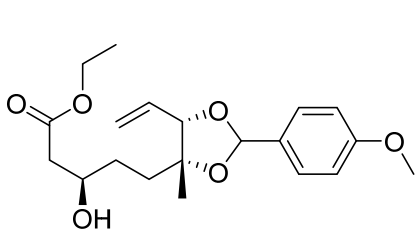
wherein

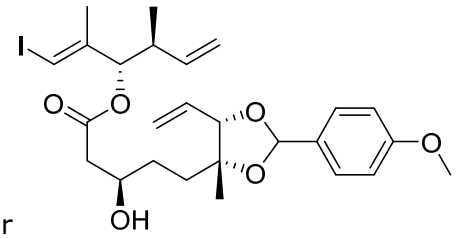
R^1 is C_{1-6} alkyl, and

R^2 is an organotin moiety including a Tin (Sn) atom covalently linked with the carbon to which R^2 is attached.

2. The compound of claim 1, selected from:


OH
OH
OH
O
O
O



or


.

4. A composition, comprising the compound of one of claims 1–3.

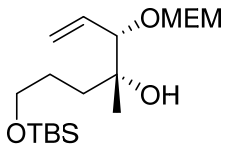
5. The compound or the composition of one of claims 1–4, for use in the preparation of a synthesized compound.

6. A method of preparing a synthesized compound, comprising contacting the compound of claim 1 with one or more reagents to form the synthesized compound.

7. A method of preparing the compound of claim 1, comprising contacting a precursor compound with one or more reagents to form the compound of claim 1.

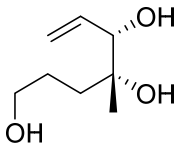
8. A method of preparing a synthesized compound, comprising at least one of the following steps:

Step 1) preparing a mixture comprising at least one solvent, 10-camphorsulfonic acid, and Compound 1



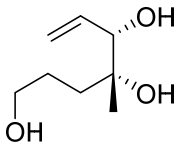
Compound 1,

to form Compound 2



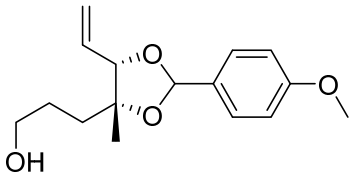
Compound 2;

Step 2) preparing a mixture comprising at least one solvent, an acid, 1-(dimethoxymethyl)-4-methoxy-benzene, and Compound 2



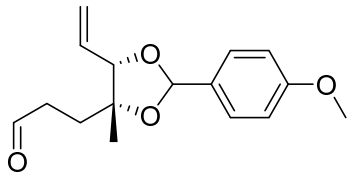
Compound 2,

to form Compound 3



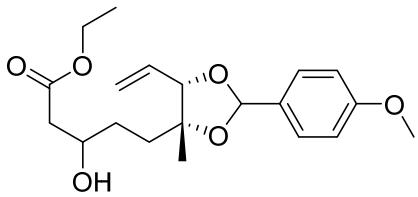
Compound 3;

Step 4) preparing a mixture comprising at least one solvent, lithium diisopropylamide, and Compound 4



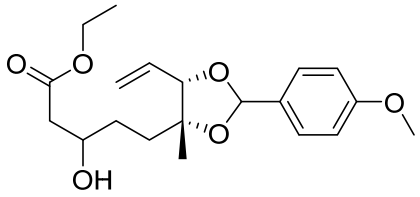
Compound 4,

to form Compound 5



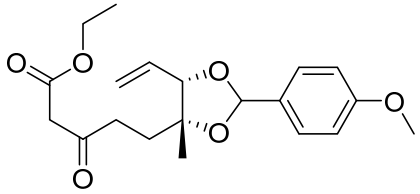
Compound 5;

Step 5) preparing a mixture comprising at least one solvent, 2-iodoxybenzoic acid, and Compound 5



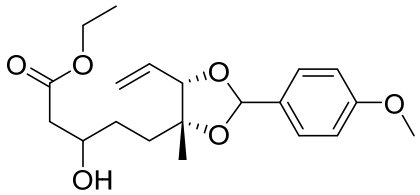
Compound 5,

to form Compound 6



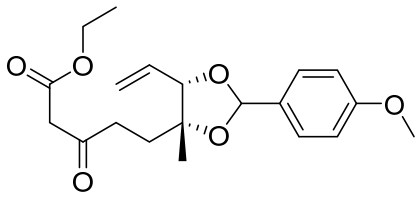
Compound 6, or

preparing a mixture comprising at least one solvent, N,N’-dicyclohexylcarbodiimide, pyridine ▪ trifluoroacetic acid, and Compound 5



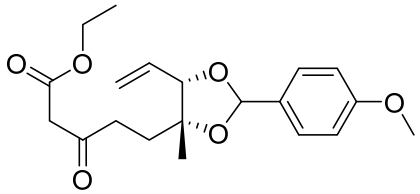
Compound 5,

to form Compound 6



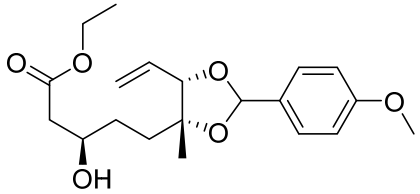
Compound 6;

Step 6) preparing a mixture comprising at least one solvent, an enzyme having aldo-keto reductase activity, a reducing cofactor selected from NADPH or NADH, an auxiliary enzyme and substrate for cofactor regeneration, and Compound 6



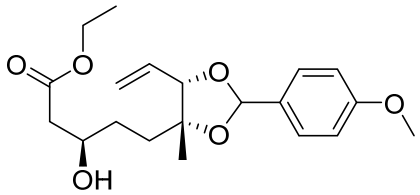
Compound 6,

to form Compound 7



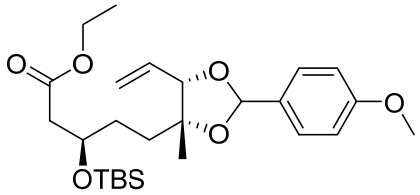
Compound 7;

Step 7) preparing a mixture comprising at least one solvent, tert-butyldimethylsilyl chloride, an imidazole, tert-butyldimethylsilyl trifluoromethanesulfonate, a base, and Compound 7



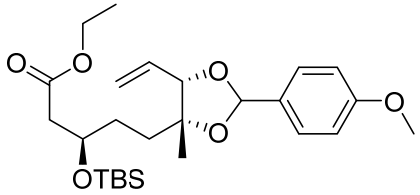
Compound 7,

to form Compound 8



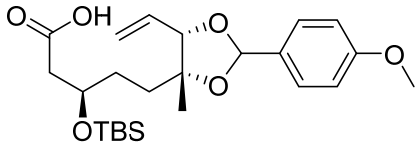
Compound 8;

Step 8) preparing a mixture comprising at least one solvent, a base, and Compound 8



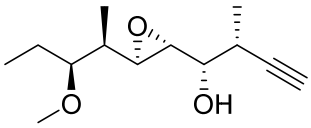
Compound 8,

to form Compound 9

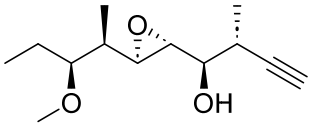


Compound 9;

Step 15b) preparing a mixture comprising at least one solvent, a silanyl chloride, Compound 19, and Compound 19R



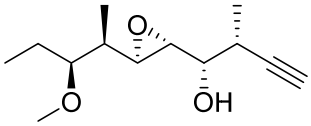
Compound 19,



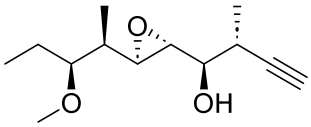
Compound 19R,

to form a reaction product, and chromatographically purifying the reaction product over silica gel to form Compound 19 or Compound 19R having an EE of at least 99%;

Step 15c) preparing a mixture comprising at least one solvent, Compound 19, Compound 19R, and an oxidizing agent

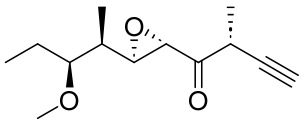


Compound 19,



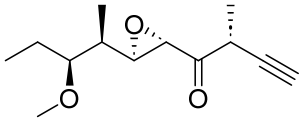
Compound 19R,

to form Compound 19O;



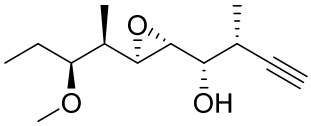
Compound 19O;

Step 15d) preparing a mixture comprising at least one solvent, an enzyme having aldo-keto reductase activity, a reducing cofactor selected from NADPH or NADH, an auxiliary enzyme and substrate for cofactor regeneration, and Compound 19O



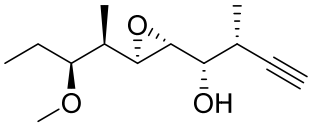
Compound 19O,

to form Compound 19

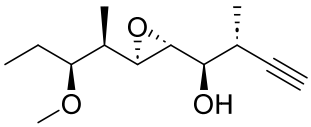


Compound 19;

Step 16) preparing a mixture comprising at least one solvent, tributyltin hydride, and Compound 19 or Compound 19R

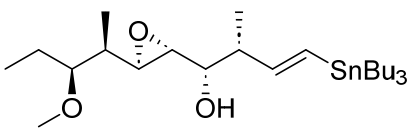


Compound 19,

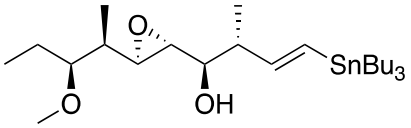


Compound 19R,

to form Compound 20 or Compound 20R (or instead using trimethyltin hydride to form the corresponding vinyl trimethyl tin compound)

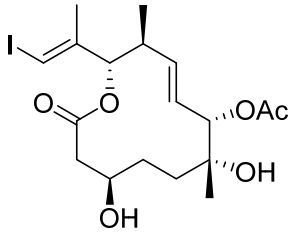


Compound 20,



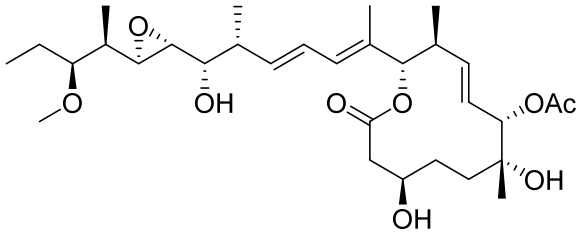
Compound 20R;

Step 17) preparing a mixture comprising Compound 20 or Compound 20R, and Compound 14

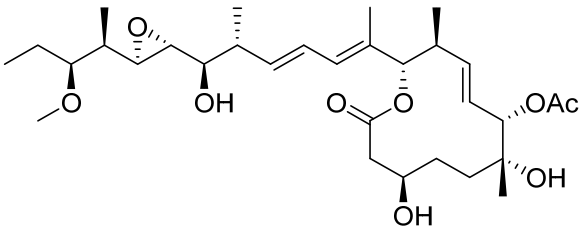


Compound 14,

to form Compound A or Compound B

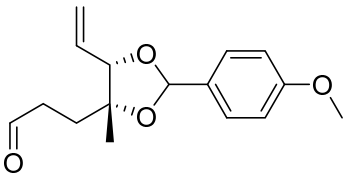


Compound A,



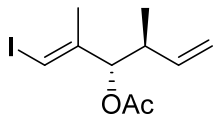
Compound B;

Step 4a) preparing a mixture comprising at least one solvent, Compound 4



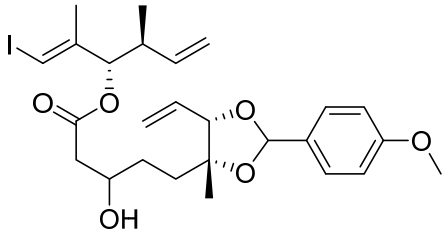
Compound 4,

and Compound 21



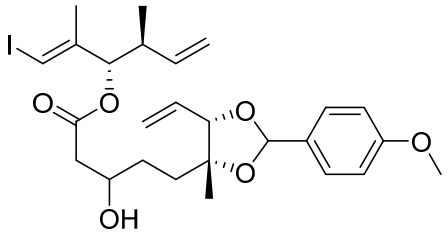
Compound 21,

to form Compound 22



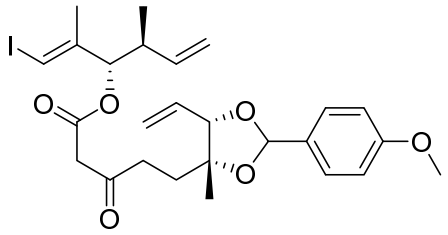
Compound 22;

Step 5a) preparing a mixture comprising at least one solvent, and Compound 22



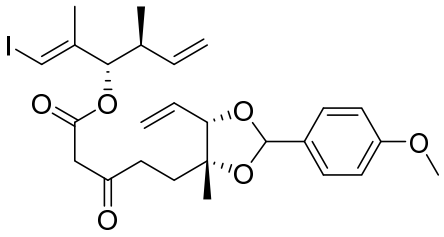
Compound 22,

and oxidizing Compound 22 to form Compound 23



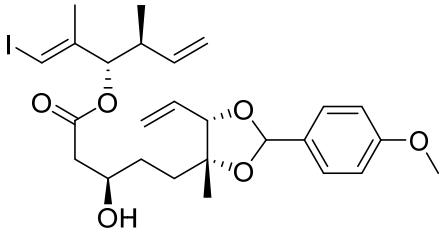
Compound 23;

Step 6a) preparing a mixture comprising at least one solvent, and Compound 23



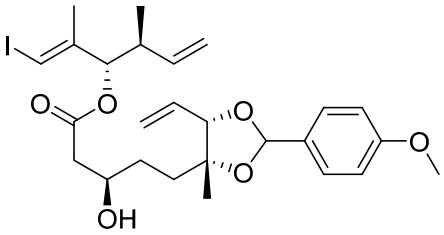
Compound 23,

and reducing Compound 23 to form Compound 24



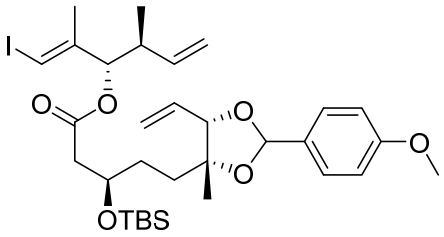
Compound 24;

Step 7a) preparing a mixture comprising at least one solvent, tert-butyldimethylsilyl chloride, a base, and Compound 24



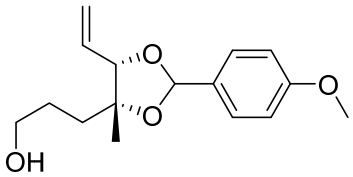
Compound 24,

to form Compound 11



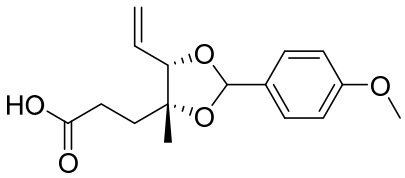
Compound 11;

Step 3b) preparing a mixture comprising at least one solvent, and Compound 3



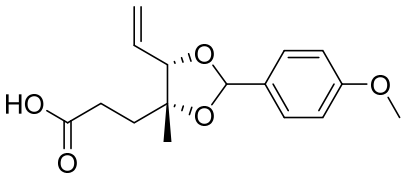
Compound 3,

and oxidizing Compound 3 to form Compound 25



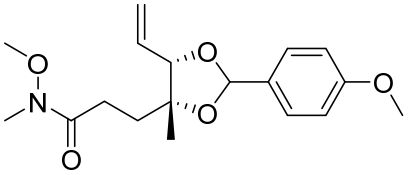
Compound 25;

Step 4b) preparing a mixture comprising at least one solvent, a peptide coupling reagent, , and Compound 25



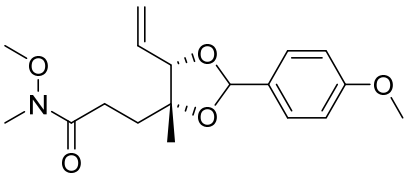
Compound 25,

to form Compound 26



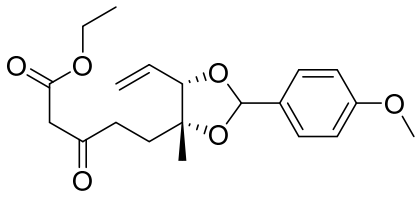
Compound 26; or

Step 5b) preparing a mixture comprising at least one solvent, a dimethylhydroxylamine, a base, and Compound 26



Compound 26,

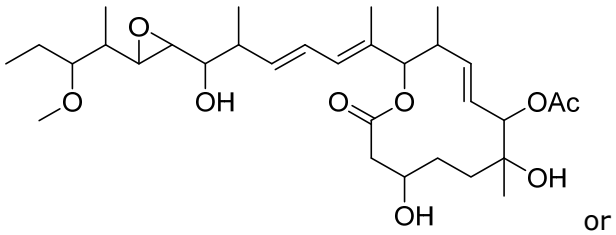
to form Compound 6



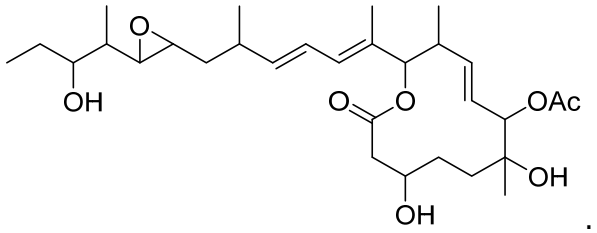
Compound 6.

9. The method of claim 8, wherein the synthesized compound is a polyketide.

10. The compound of claim 9, wherein the polyketide is

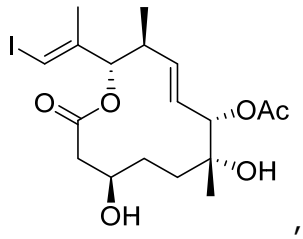


or

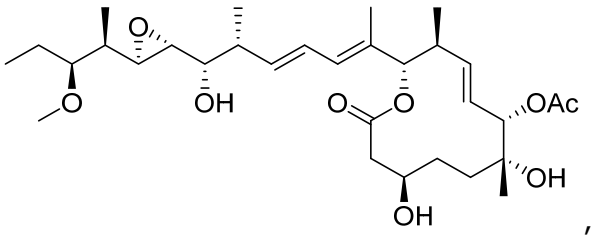


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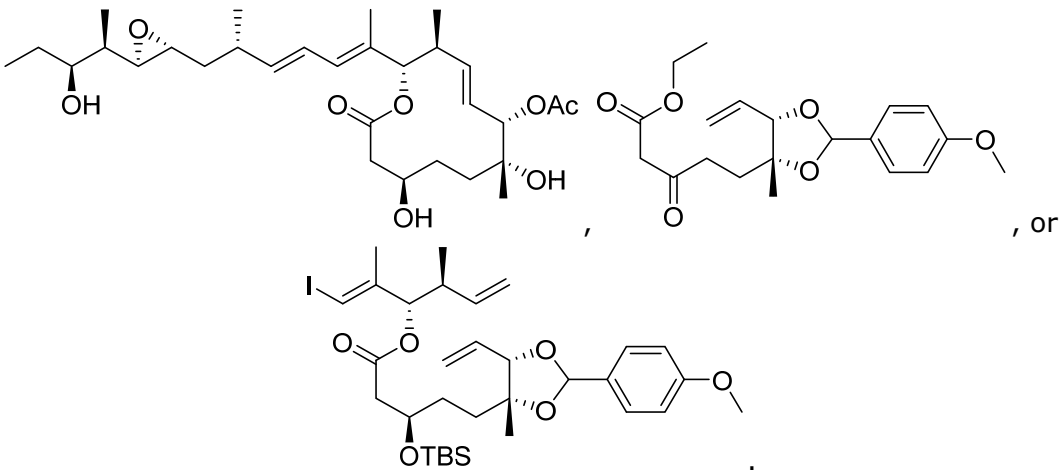
11. The method of claim 8, wherein the synthesized compound is



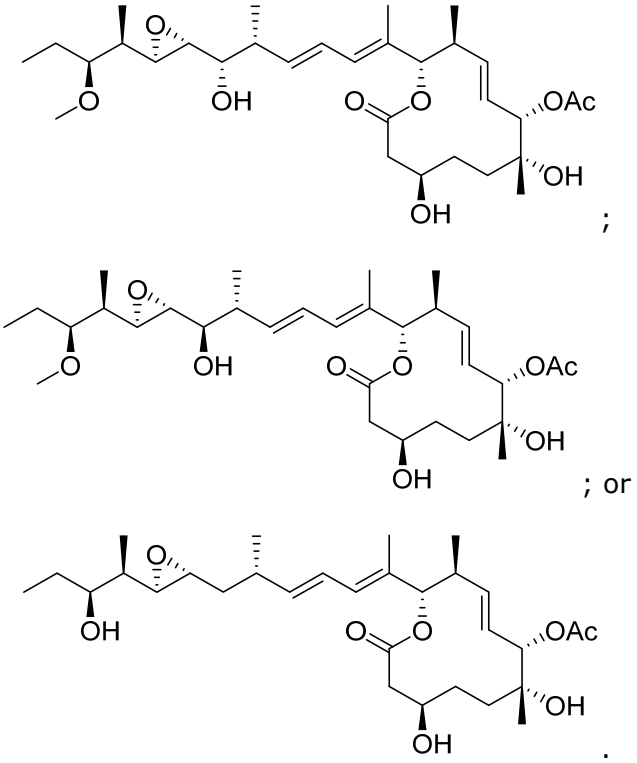
,



,

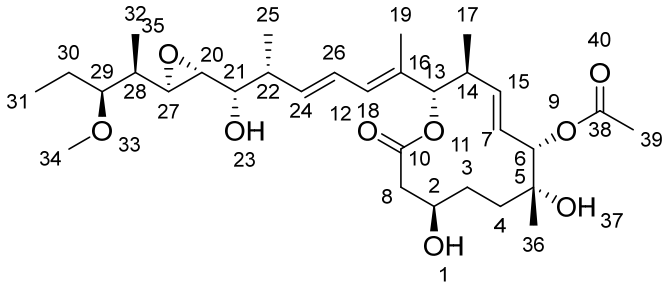


12. A compound, prepared by the method of claim 8, wherein the compound is:

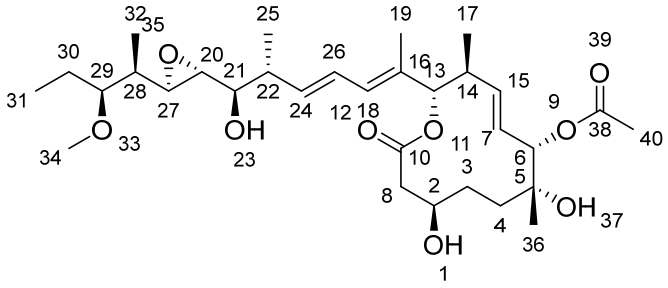


13. A composition, comprising:

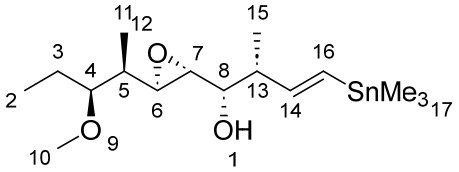
1) a compound of a formula selected from:



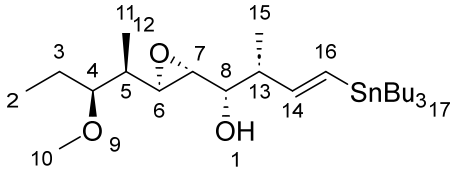
the composition having greater than 99% entantiopurity at carbon 21 of the formula,



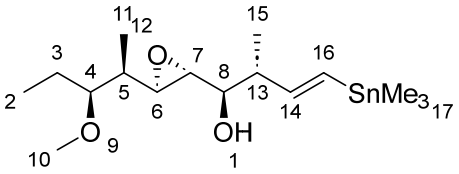
the composition having greater than 99% entantiopurity at carbon 21 of the formula,



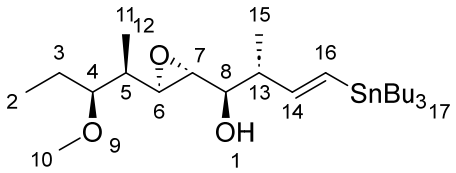
the composition having greater than 99% entantiopurity at carbon 8 of the formula,



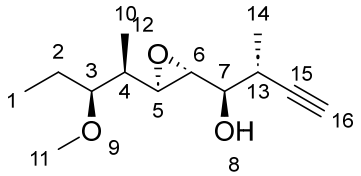
the composition having greater than 99% entantiopurity at carbon 8 of the formula,



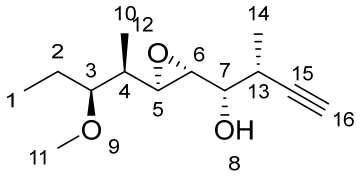
the composition having greater than 99% entantiopurity at carbon 8 of the formula,



the composition having greater than 99% entantiopurity at carbon 8 of the formula,



the composition having greater than 99% entantiopurity at carbon 7 of the formula, or

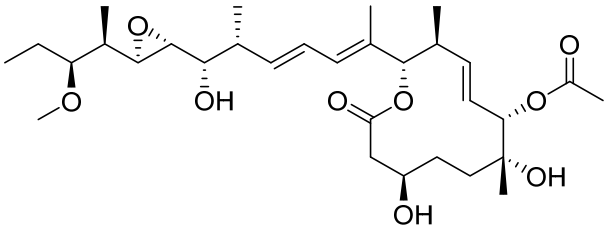


the composition having greater than 99% entantiopurity at carbon 7 of the formula; and

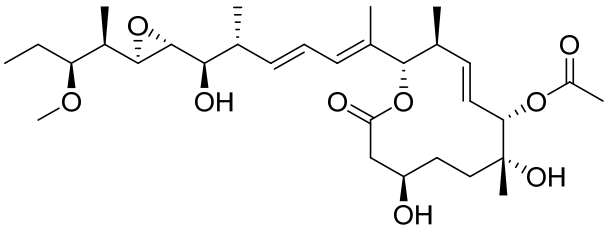
2) optionally, wherein the composition comprises less than 0.5 ppm Sn other than Sn in the formula.

14. A composition, comprising:

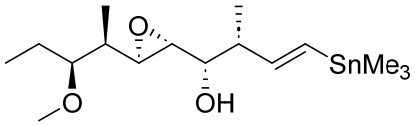
1) a compound of a formula selected from:



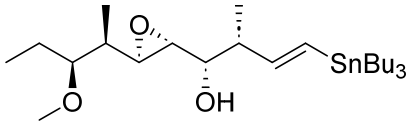
the composition having the formula in greater than 99% entantiopurity,



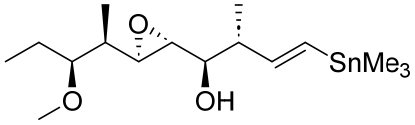
the composition having the formula in greater than 99% entantiopurity,



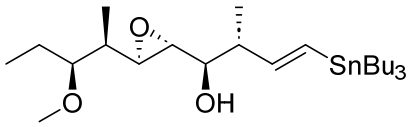
the composition having the formula in greater than 99% entantiopurity,



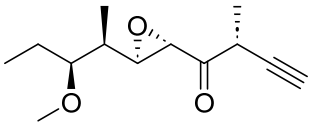
the composition having the formula in greater than 99% entantiopurity,



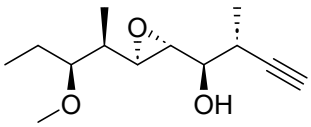
the composition having the formula in greater than 99% entantiopurity,



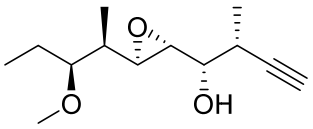
the composition having the formula in greater than 99% entantiopurity,



the composition having the formula in greater than 99% entantiopurity,



the composition having the formula in greater than 99% entantiopurity, or



the composition having the formula in greater than 99% entantiopurity; and

2) optionally, wherein the composition comprises less than 0.5 ppm Sn other than Sn in the formula.

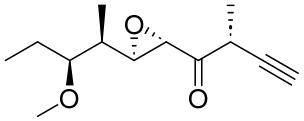
15. Use of the compound of claim 12, or the composition of claim 13 or claim 14, in the manufacture of a medicament for treating a neoplasm in a subject; wherein a therapeutically effective amount of the compound of claim 12, or the composition of claim 13 or claim 14 is to be administered to the subject.

16. A method of modulating spliceosomal activity in a cell, comprising contacting the cell with an effective amount of the compound of claim 12, or the composition of claim 13 or claim 14.

17. A method of modulating adenosine deaminase acting on RNA (ADAR) activity in a cell, comprising contacting the cell with an effective amount of the compound of claim 12, or the composition of claim 13 or claim 14.

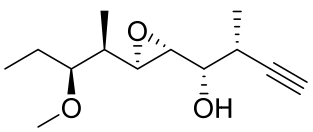
18. A method, comprising a synthesis of Compound 19, wherein the synthesis comprises:

contacting the compound of claim 2, which is Compound 19O,



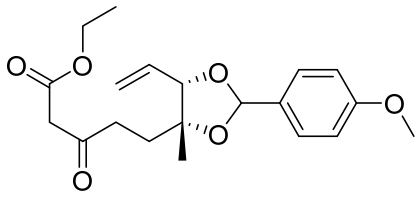
Compound 19O,

with an enzyme having aldo-keto reductase activity, to form Compound 19,



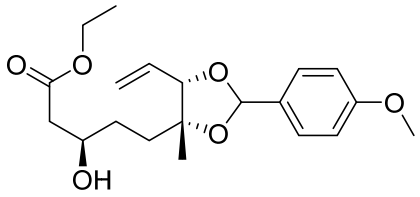
Compound 19.

19. A method, comprising a synthesis of Compound 7, wherein the synthesis comprises: contacting the compound of claim 2, which is Compound 6,



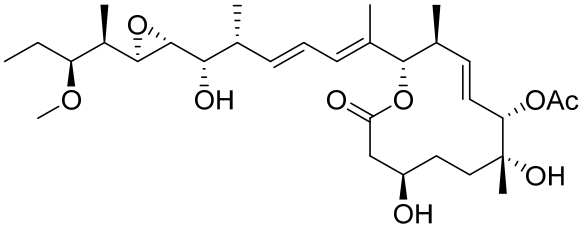
Compound 6,

with an enzyme having aldo-keto reductase activity, to form Compound 7,



Compound 7.

20. The method of claim 18 or claim 19, which is a method of preparing Compound A,



Compound A.