# Oxidative Entry into the *Illicium* Sesquiterpenes: Enantiospecific Synthesis of (+)-Pseudoanisatin

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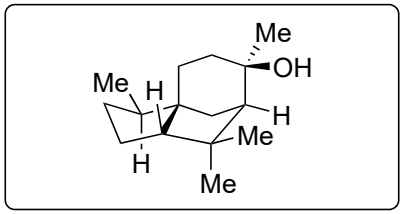
*J. Am. Chem. Soc.* **2016**, *138*, 16616–16619.




1–6

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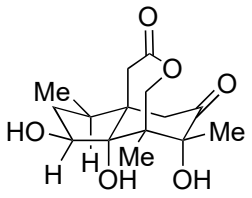
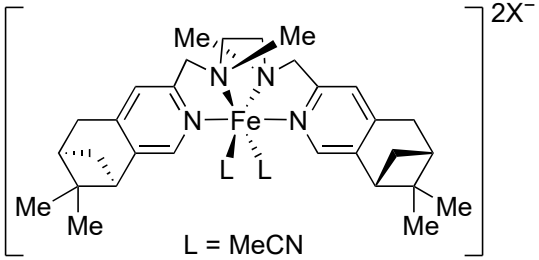
7–12




**(+)-Pseudoanisatin**

1) $PhI(OAc)_2$, $I_2$, h$\nu$
2) $Me_3OBF_4$, proton sponge
3) $NaIO_4$, $RuCl_3 \cdot xH_2O$
4) $CuBr_2$, *t*-BuOH, $\Delta$
5) KOH, KO*t*-Bu
6) NaH, TBSCl; aq. HCl

[Fe] = [Fe((*R*)-mepp)$(MeCN)_2$][$(SbF_6)_2$]




L = MeCN

X = $SbF_6$

7) [Fe], TBHP
8) $Et_3OPF_6$, proton sponge; TFA/$H_2O$
9) TMSCl, NaI
10) TBAF, AcOH
11) $OsO_4$•TMEDA
12) MsCl, py; aq. NaOH

1) Name the starting material.
1') Name the reaction.
2) Give the structure of proton sponge.

5) Hint: Two transformations are happening.