Synthesis of MK-8742

**Significance:** MK-8742 is an inhibitor of the hepatitis C nonstructural protein NS5a. Key steps in the synthesis depicted are (1) the asymmetric transfer hydrogenation of the imine B and (2) the crystallization-induced diastereoselection in the formation of the N,O-acetal F.

**Comment:** The dr in the N,O-acetal formation E → F (7:1) improved to >99:1 by conducting the reaction in MeCN as the solvent and with TFA as the acid catalyst. KMnO₄ effects the oxidation of the indoline F without racemization of the N,O-acetal, providing indole G in 83% yield and with >99% ee.

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**Synfacts 2014, 10(8), 0783 Published online: 18.07.2014**

**DOI:** 10.1055/s-0034-1378399; **Reg-No.:** K03414SF