

(-)-Laulimalide

由多种海绵中分离得到

细胞毒性、抗肿瘤活性

IC_{50}

对KB细胞系：15ng/mL

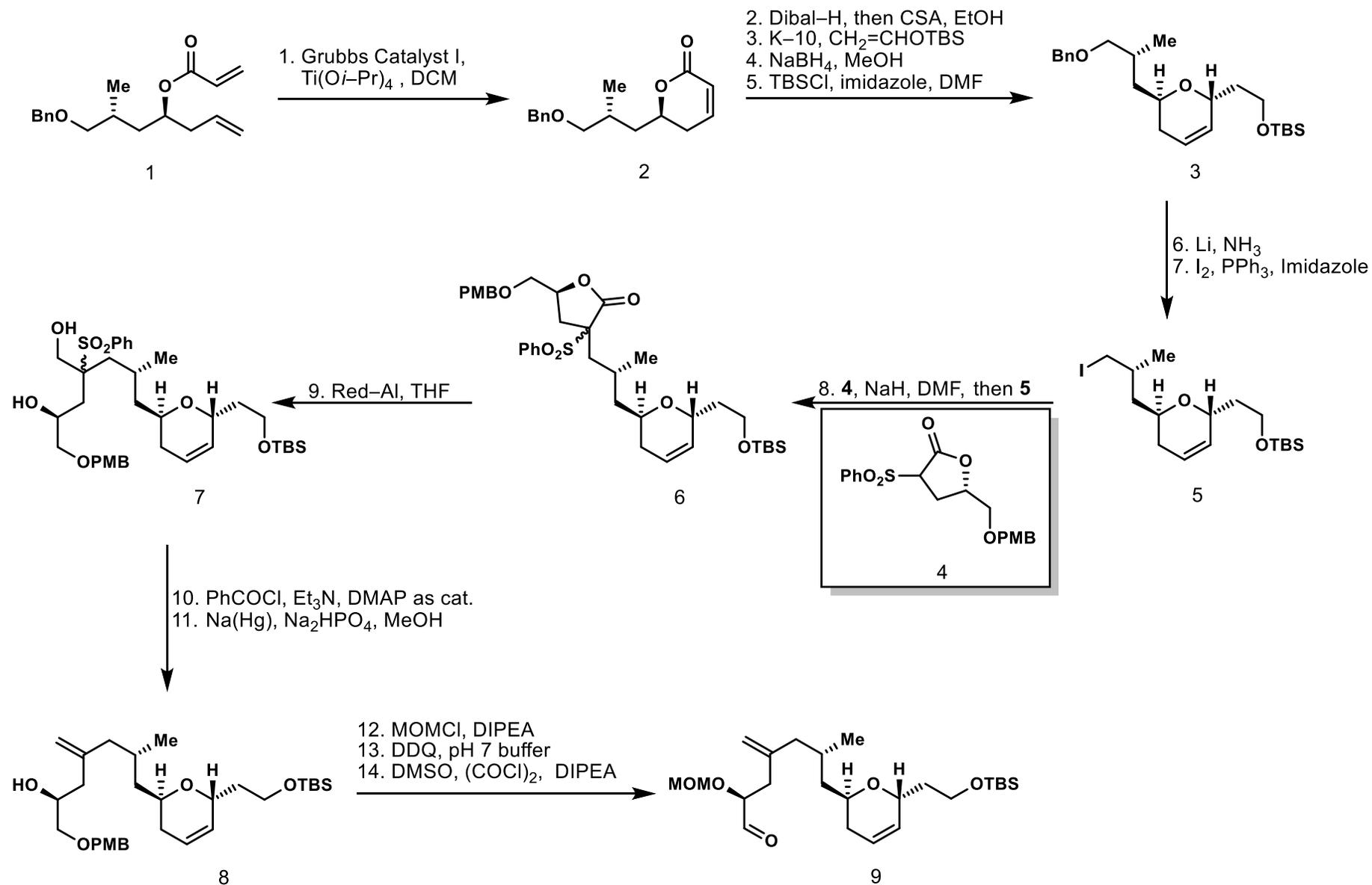
对P388、A549、HT29和MEL28细胞系：10-50ng/mL

孙宸

2024.6.12

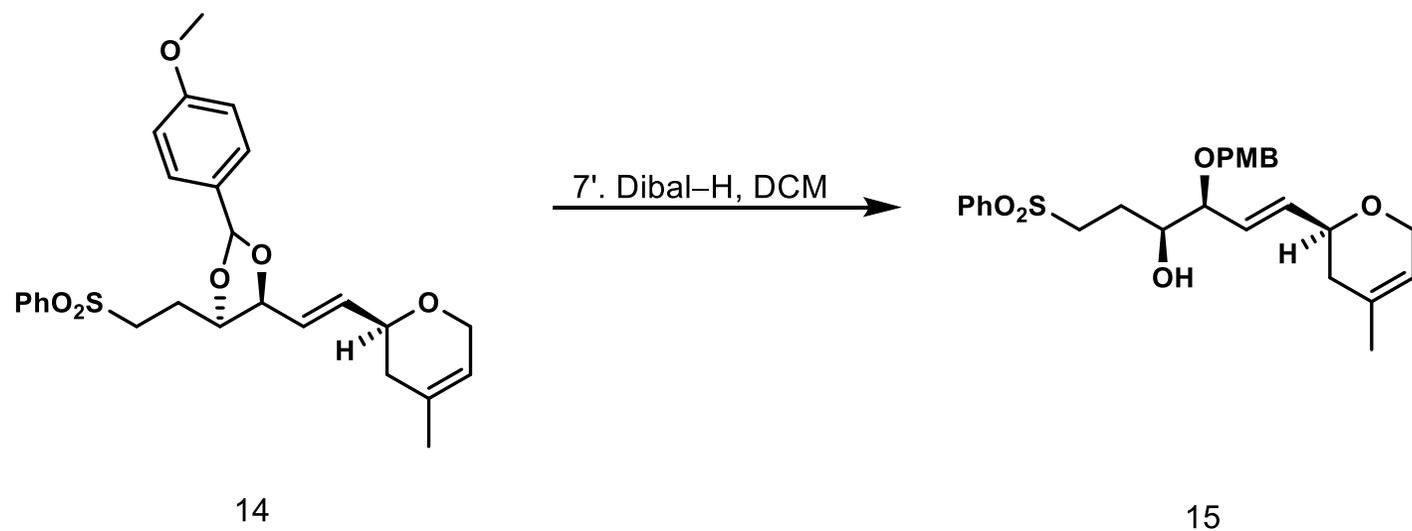
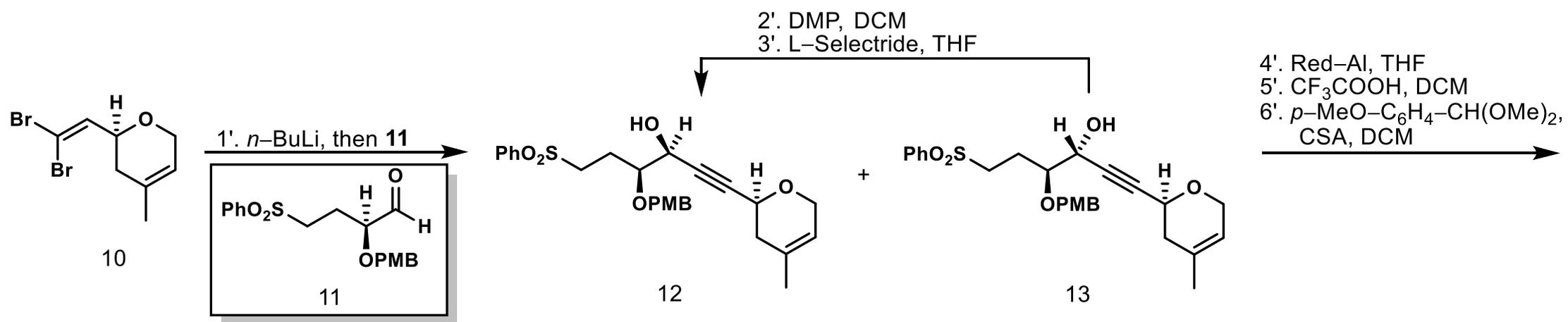
Ghosh课题组的工作 (J. Am. Chem. Soc., 2000, 122, 11027-11028.)

Total Synthesis of (-)-Laulimalide



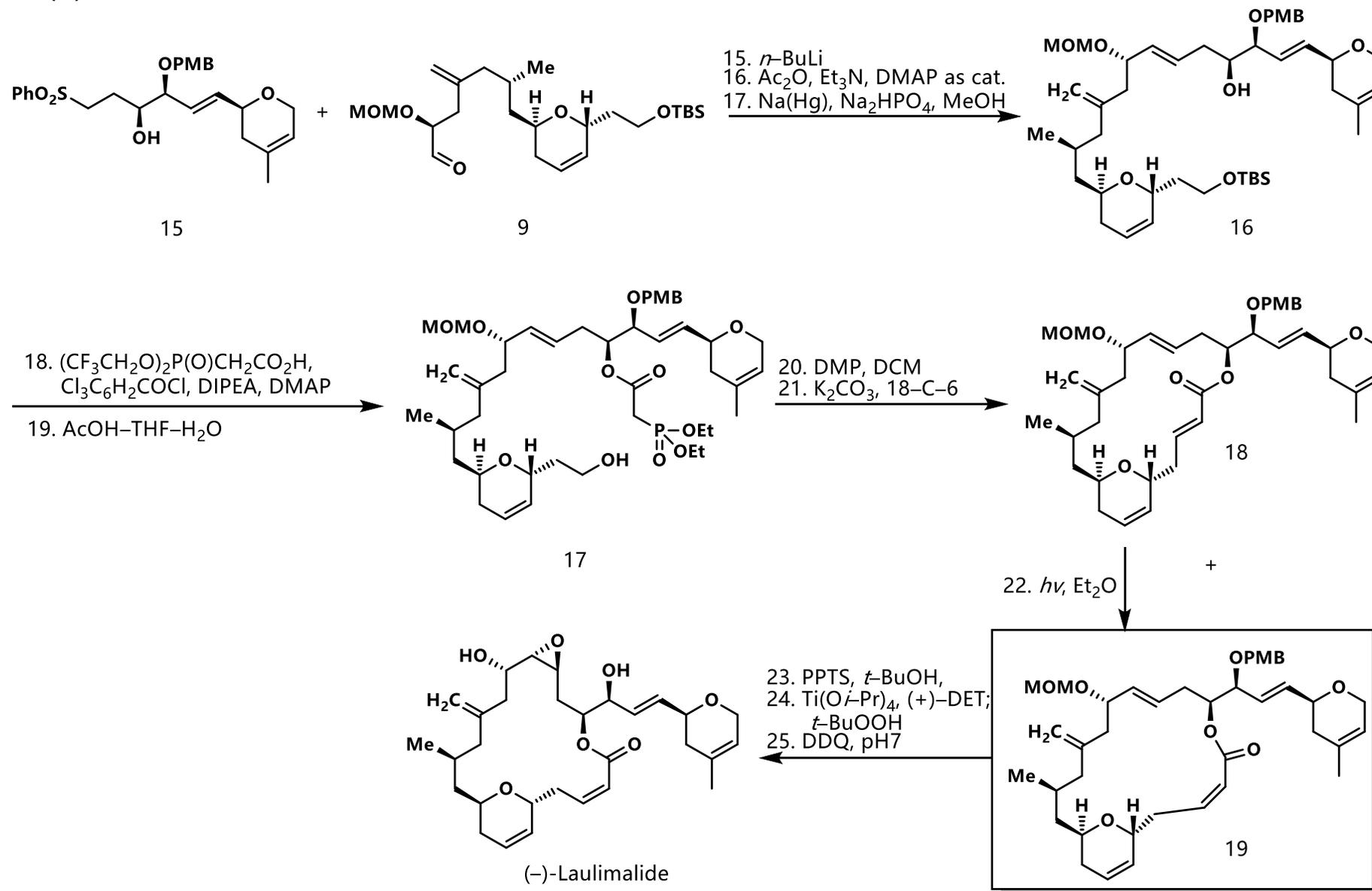
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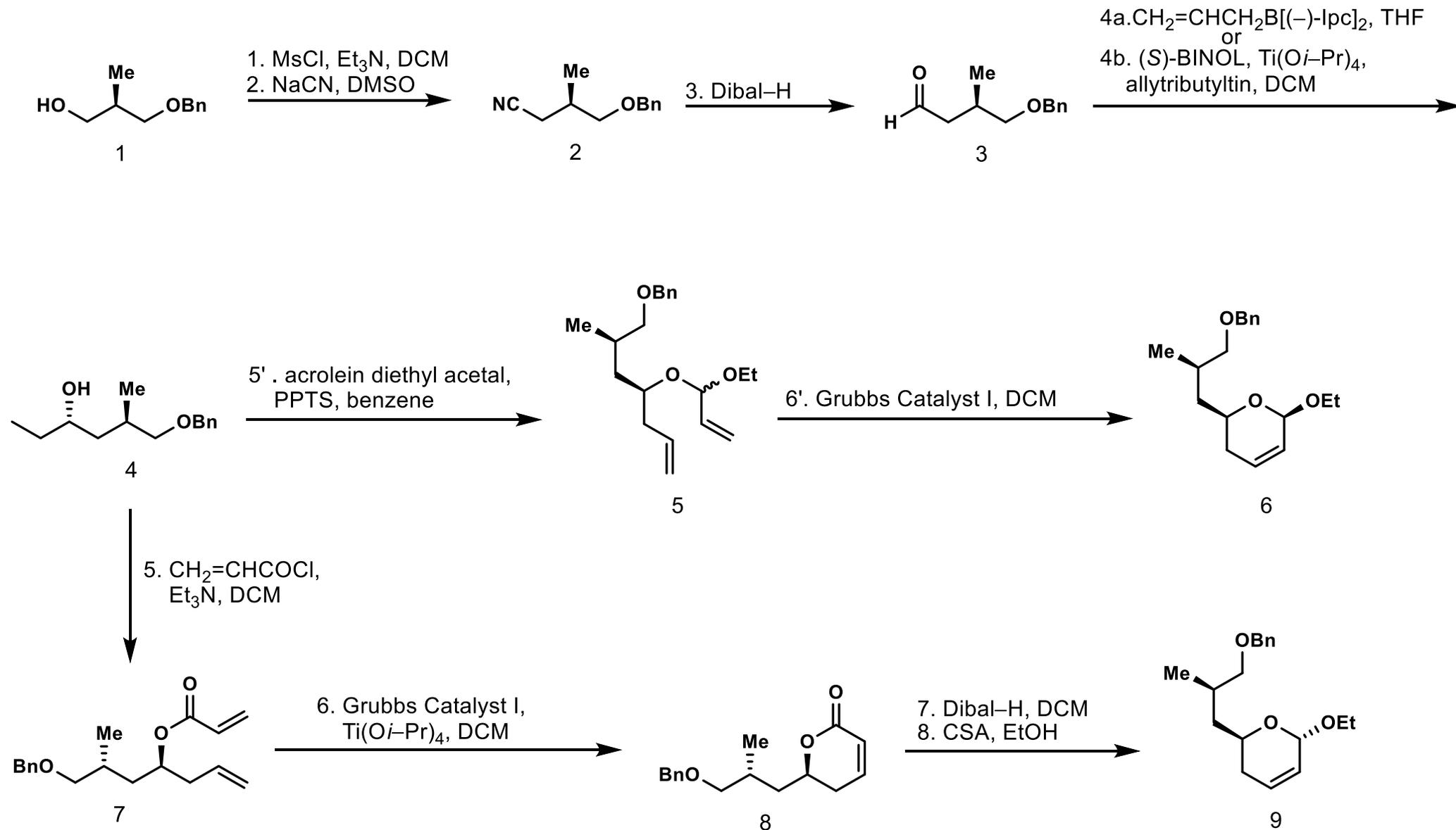
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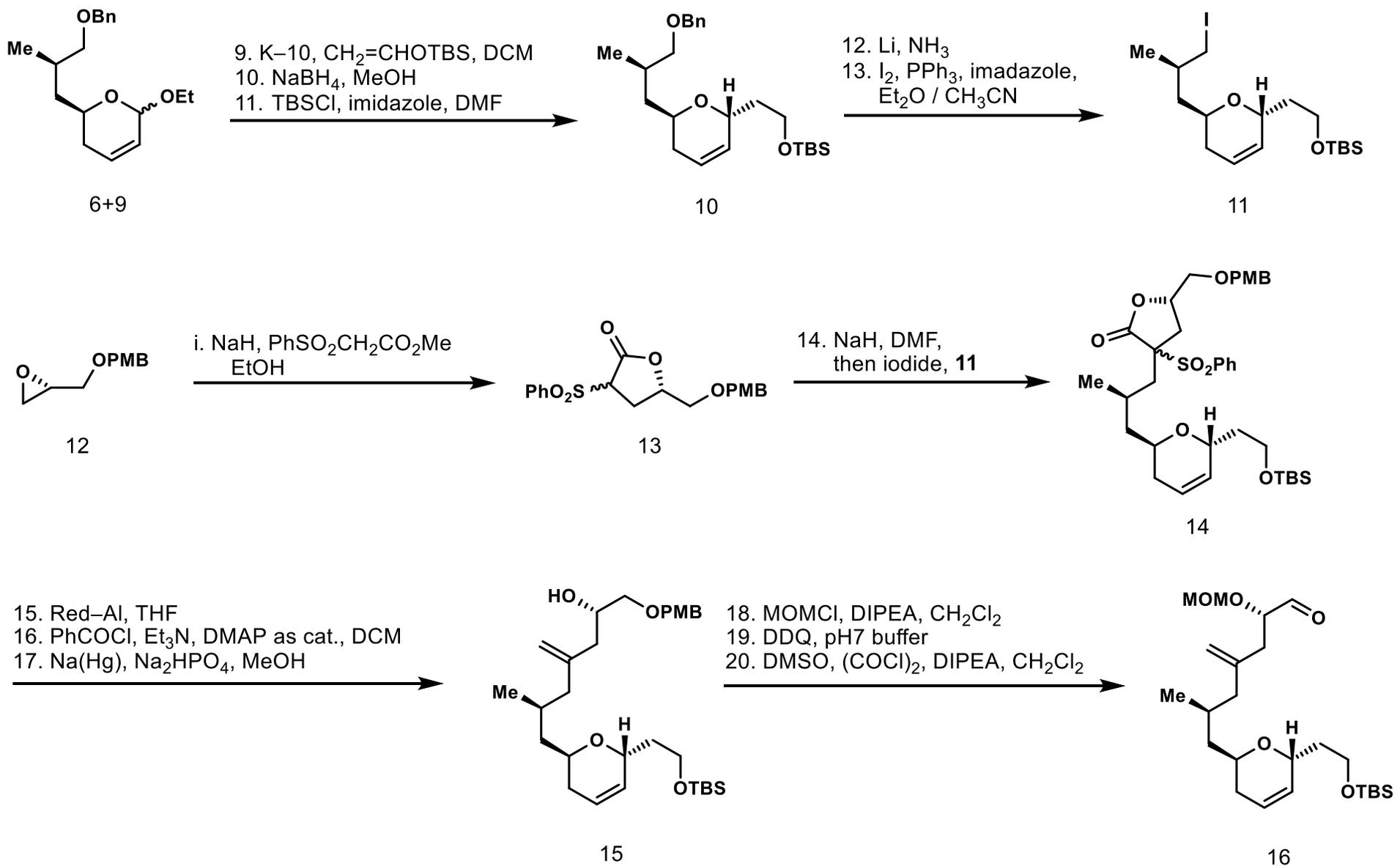
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Total Synthesis of Microtubule-Stabilizing Agent (-)-Laulimalide



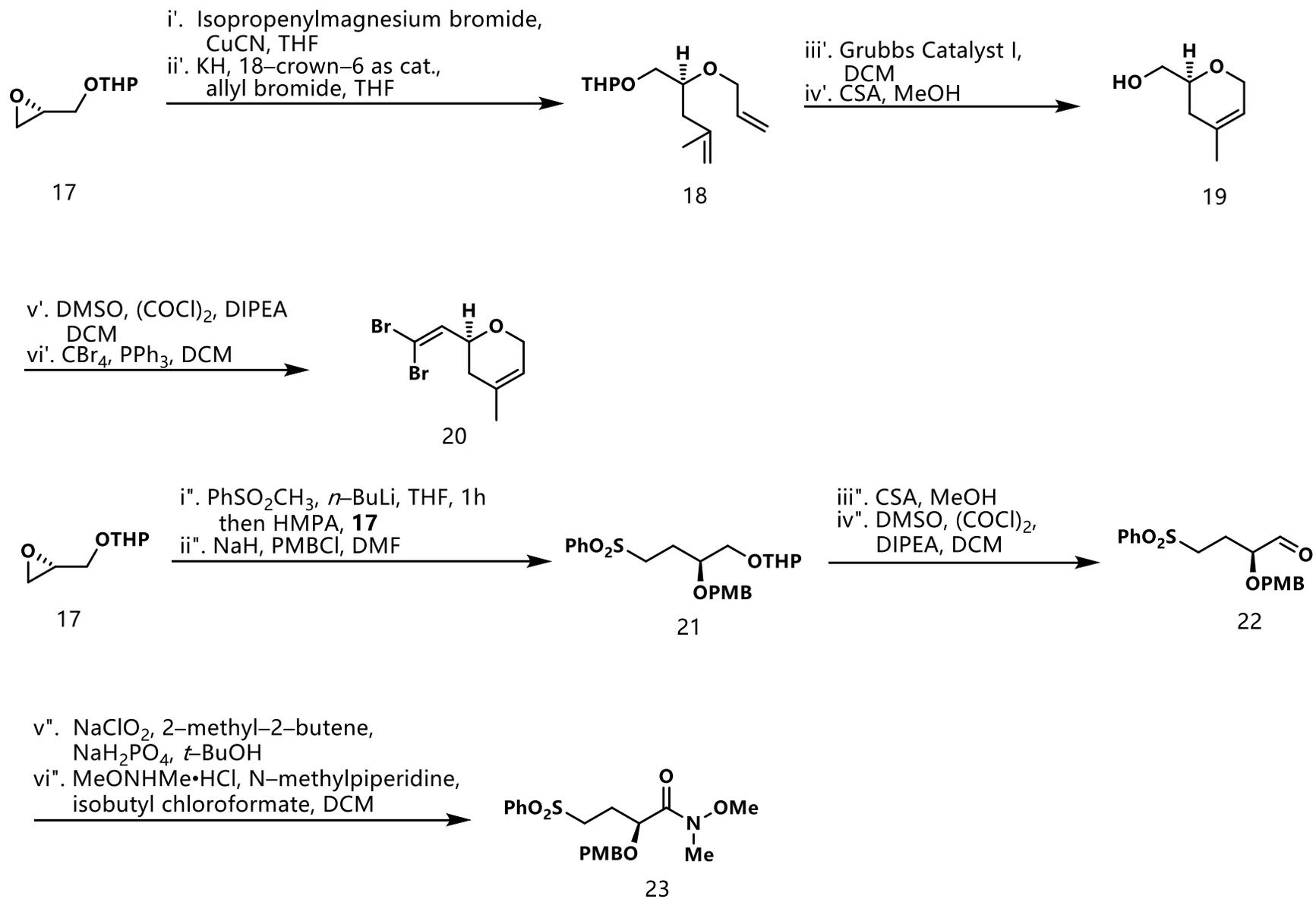
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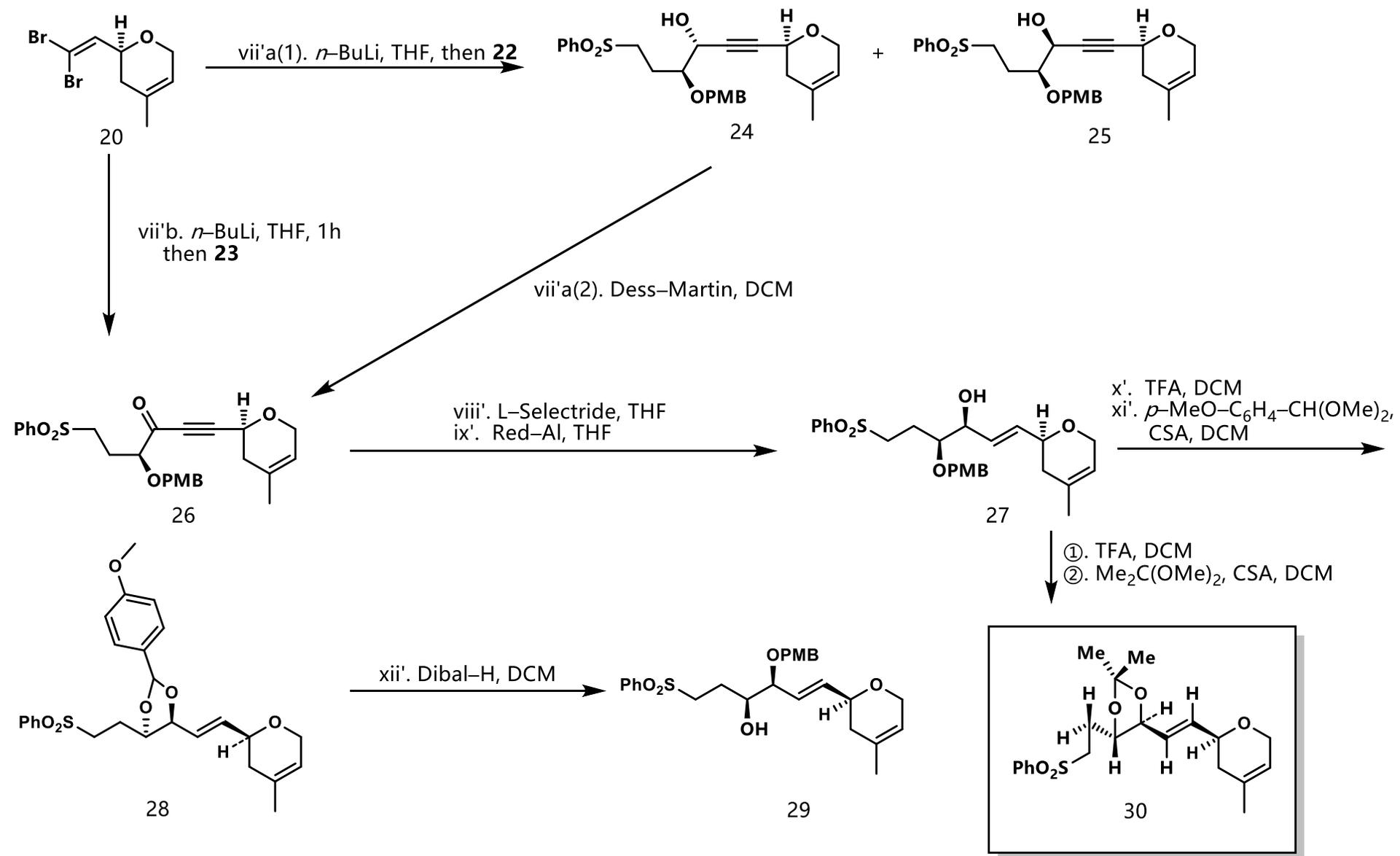
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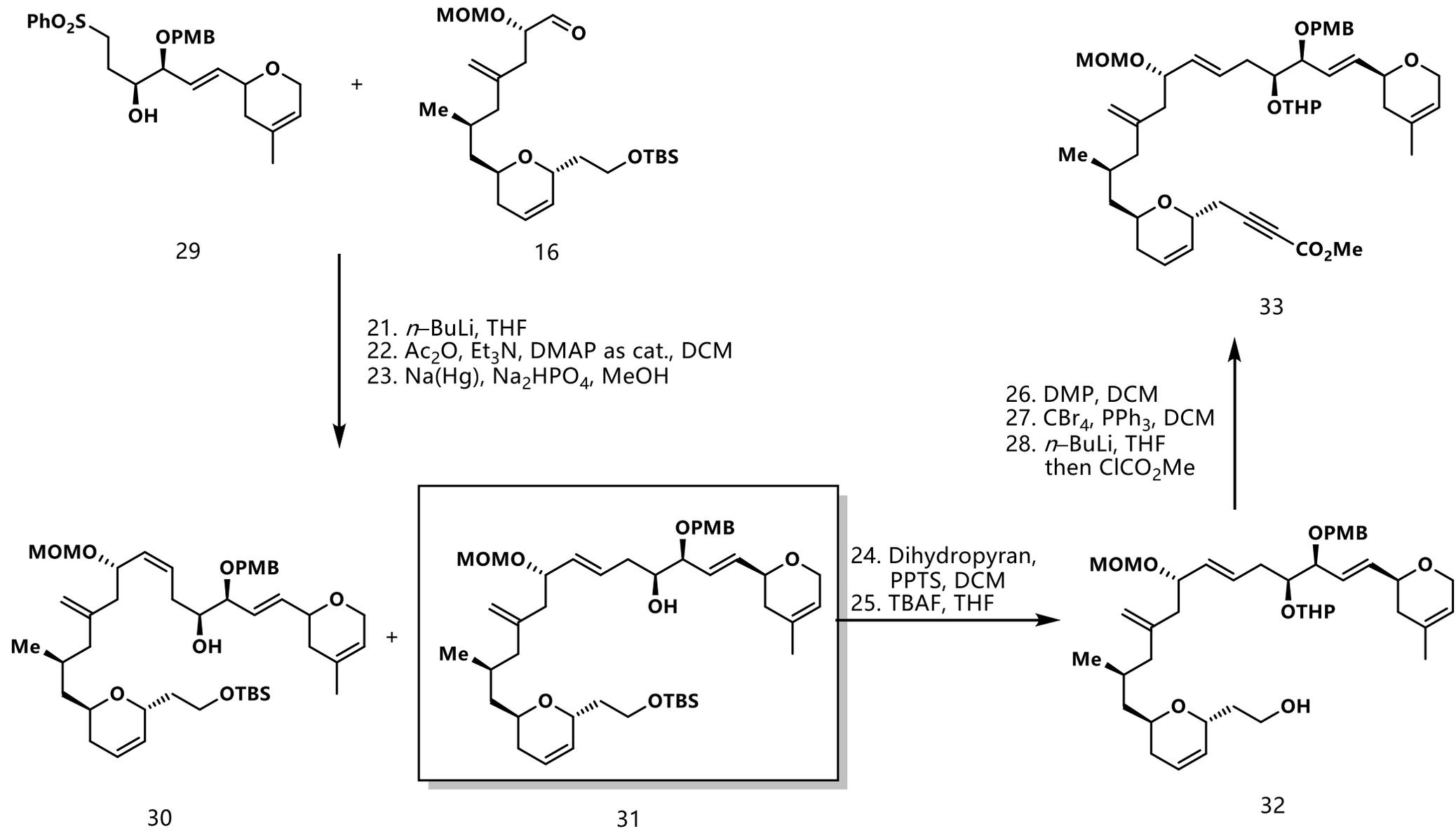
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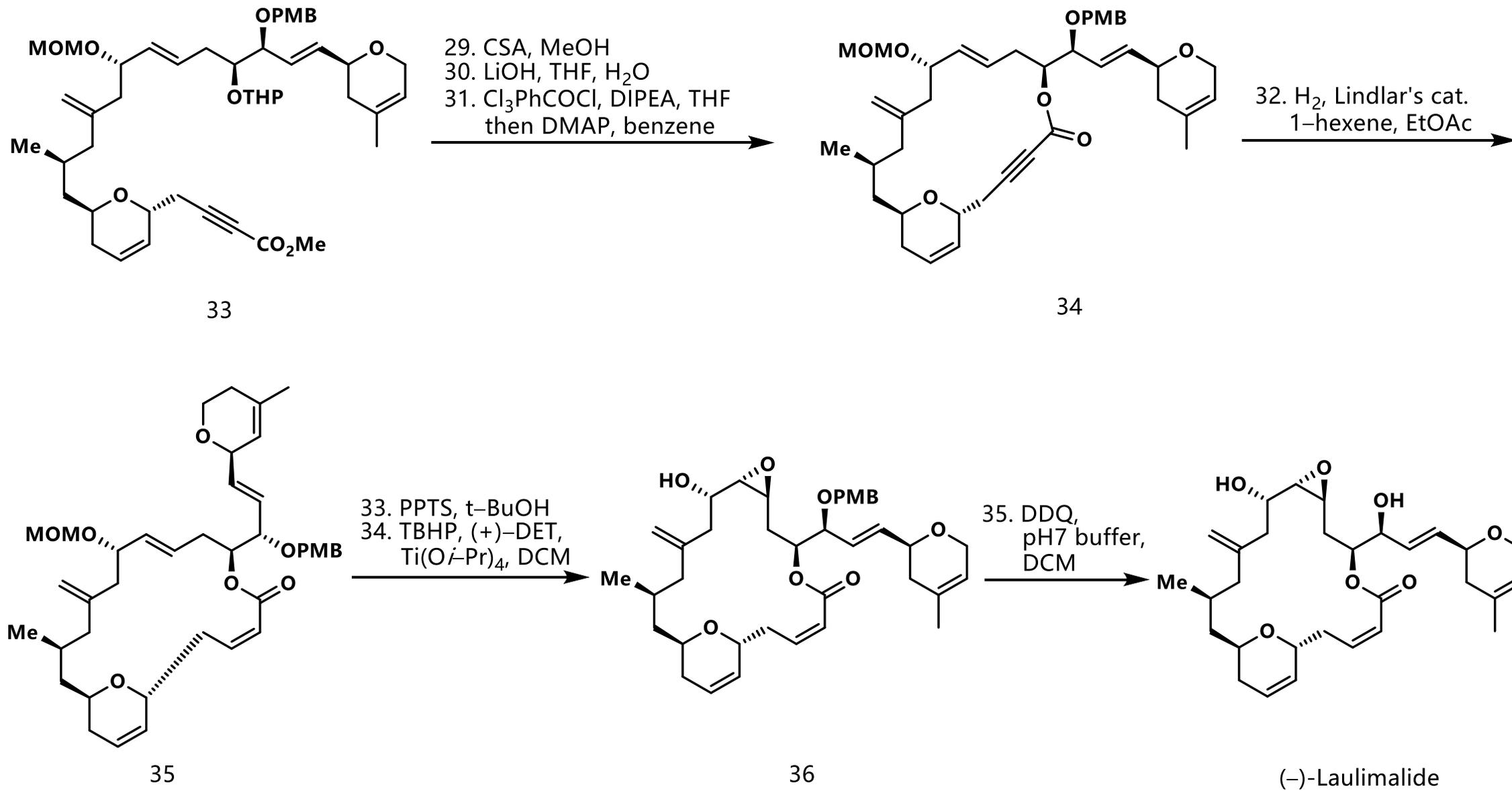
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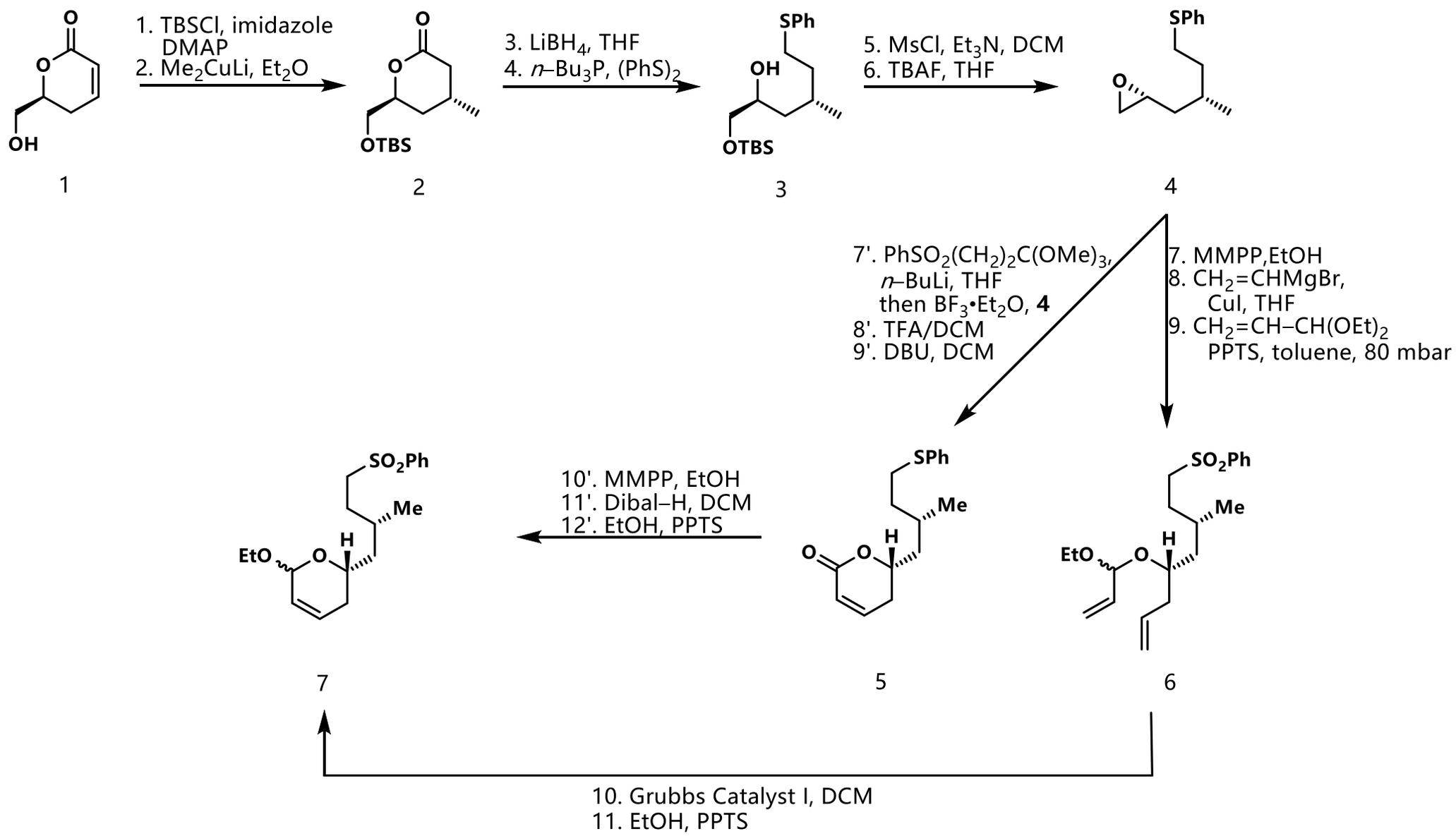
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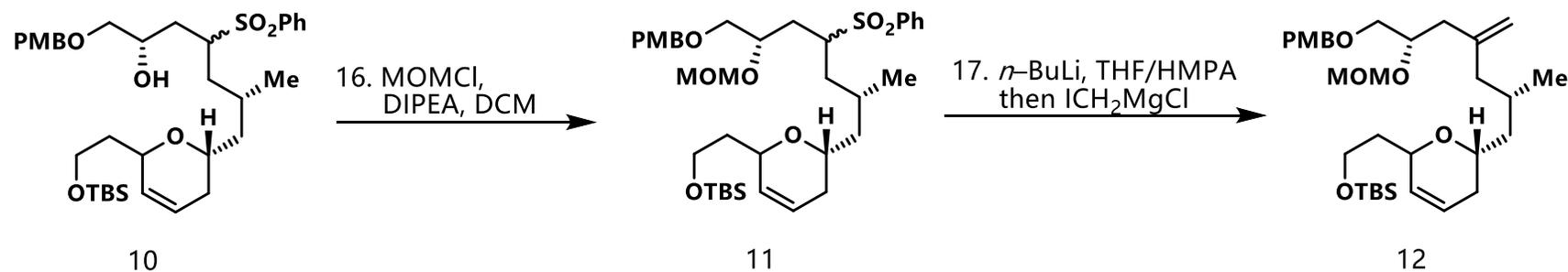
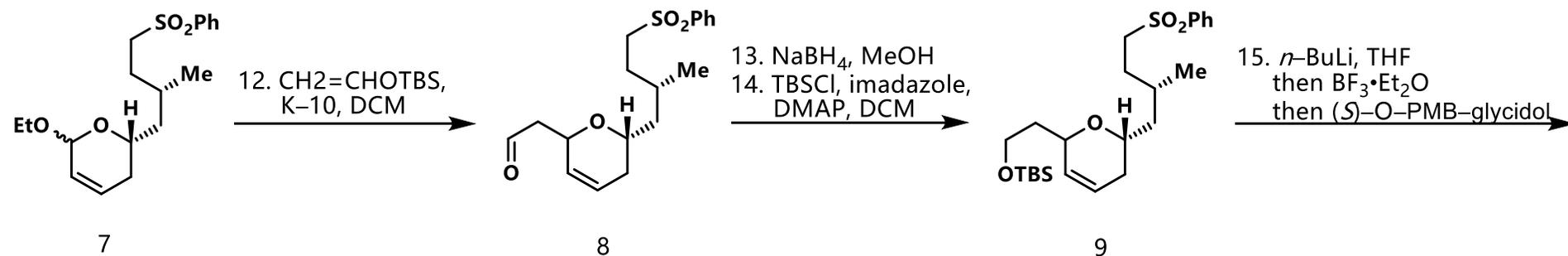
Mulzer课题组的工作 (Angew. Chem. Int. Ed., 2001, 40, 3842-3846.)

An Intramolecular Case of Sharpless Kinetic Resolution: Total Synthesis of Laulimalide

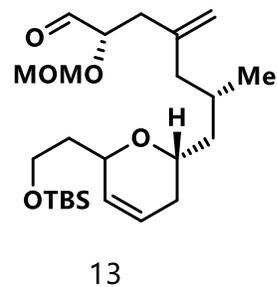


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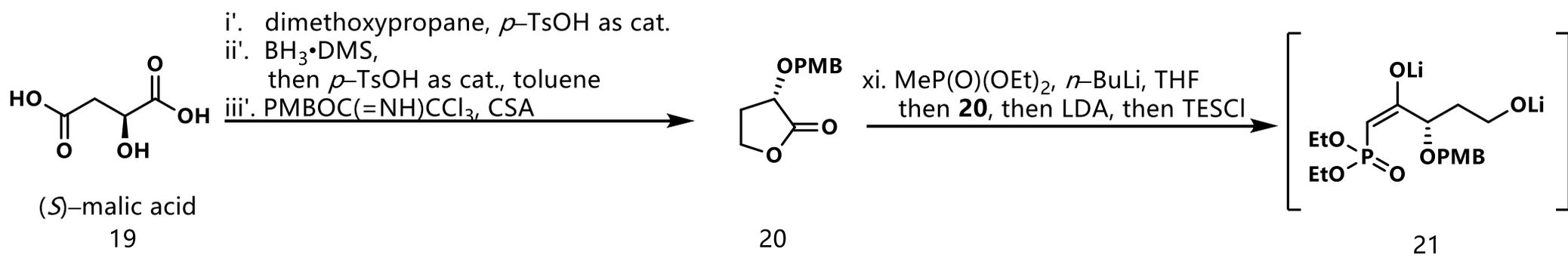
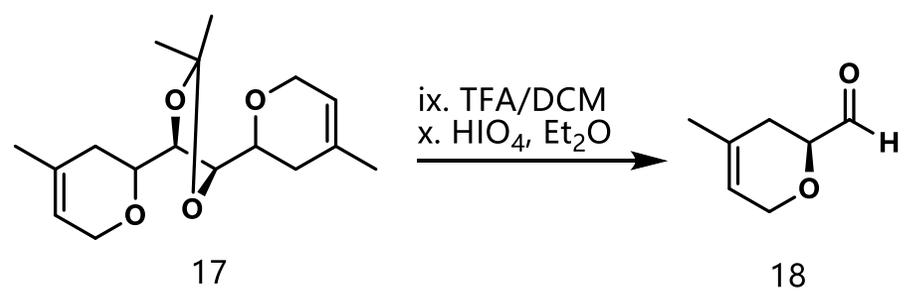
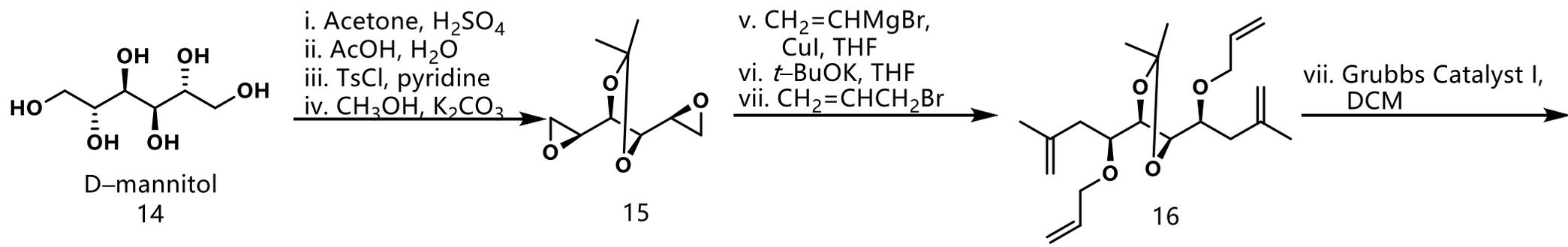


18. DDQ, DCM, pH7 buffer
19. $(\text{COCl})_2$, DMSO, DCM,
then alcohol, DIPEA



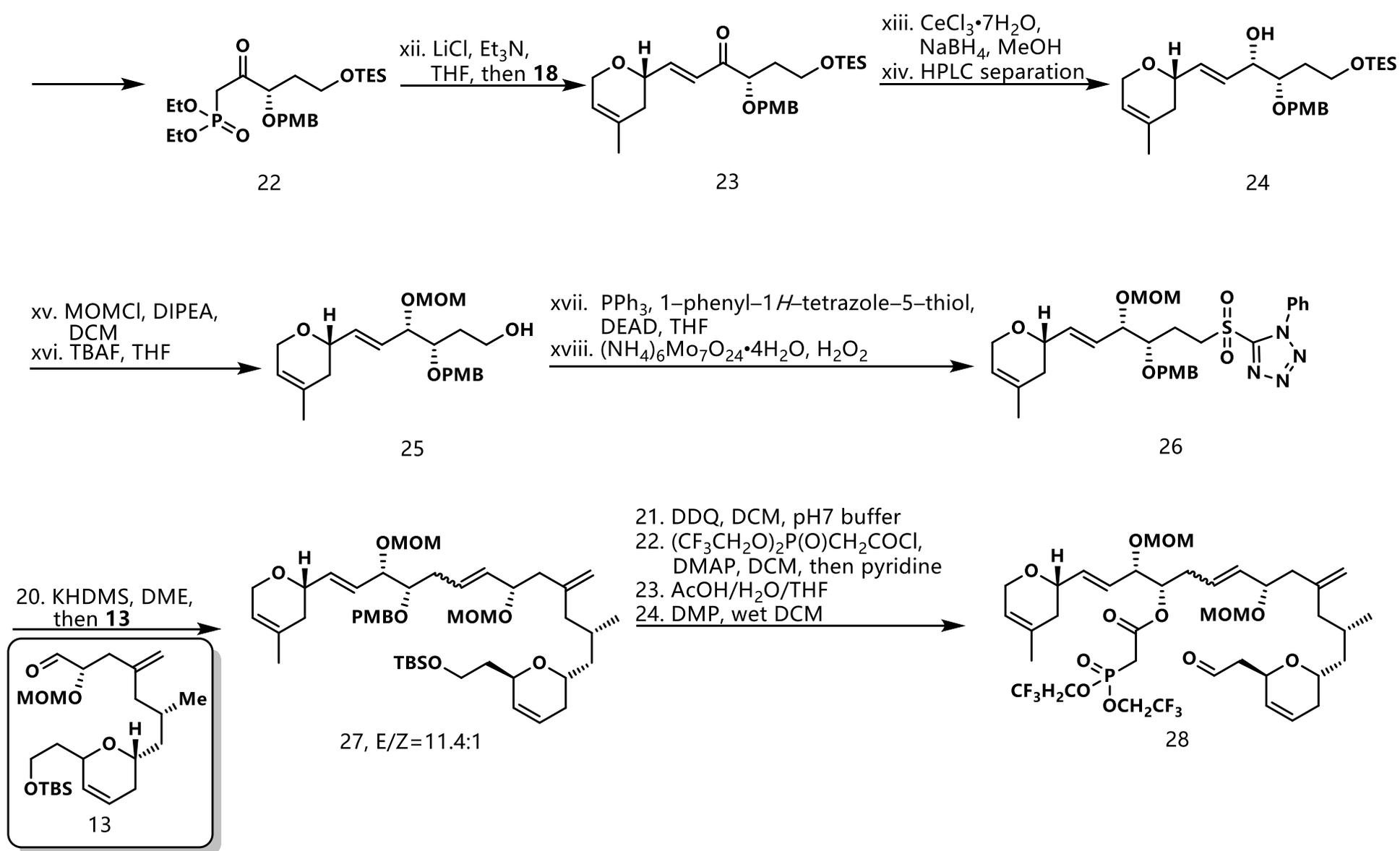
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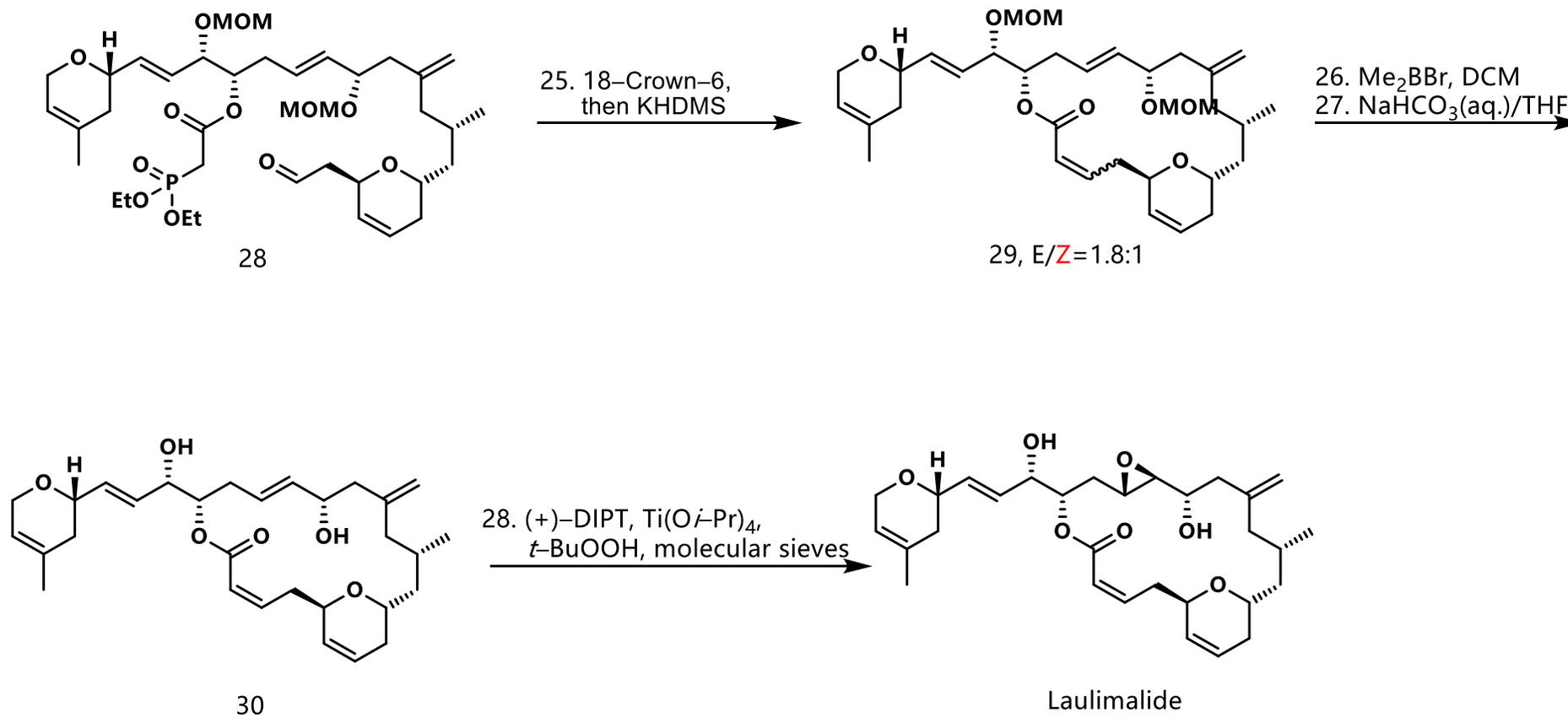
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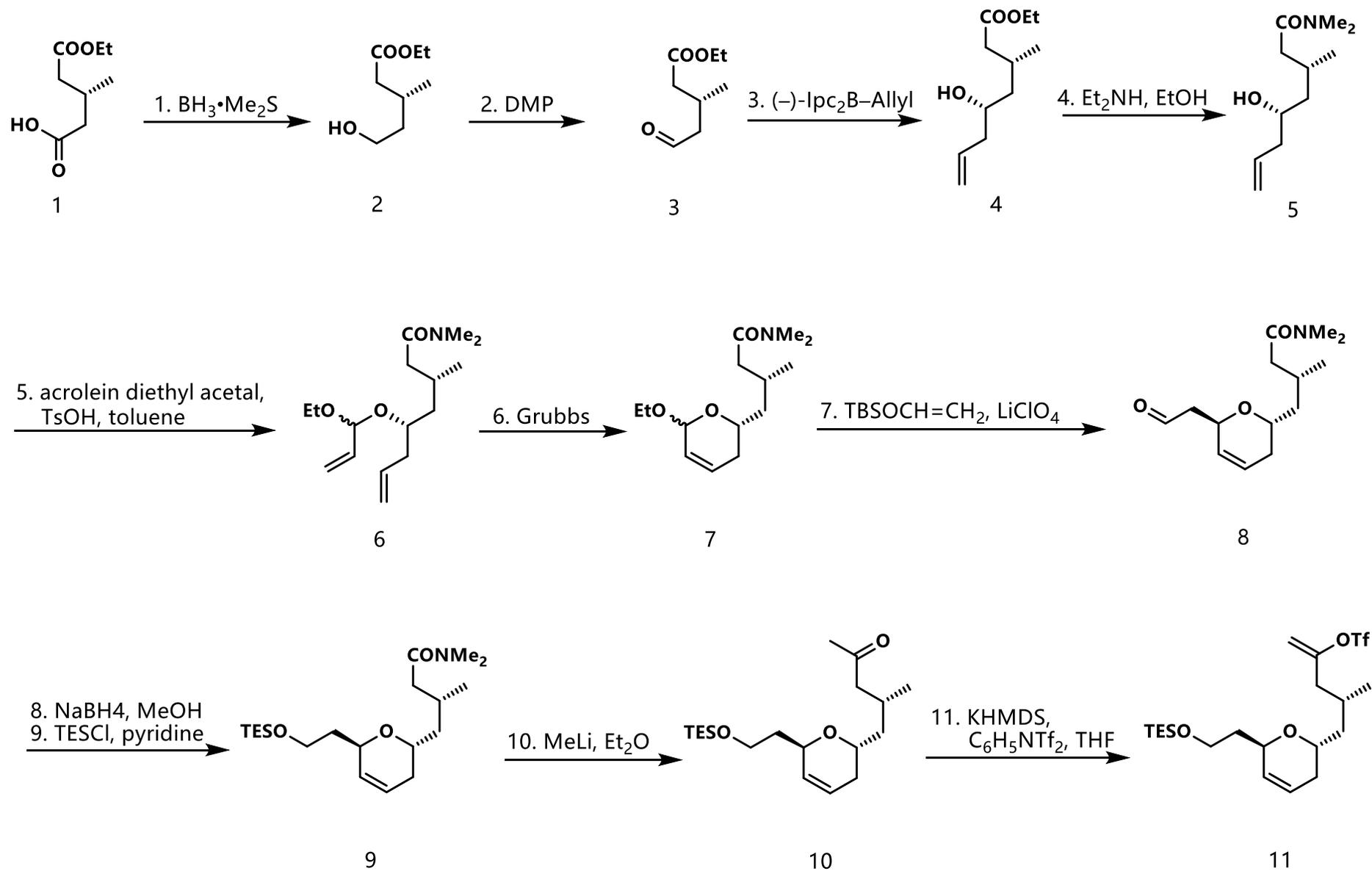
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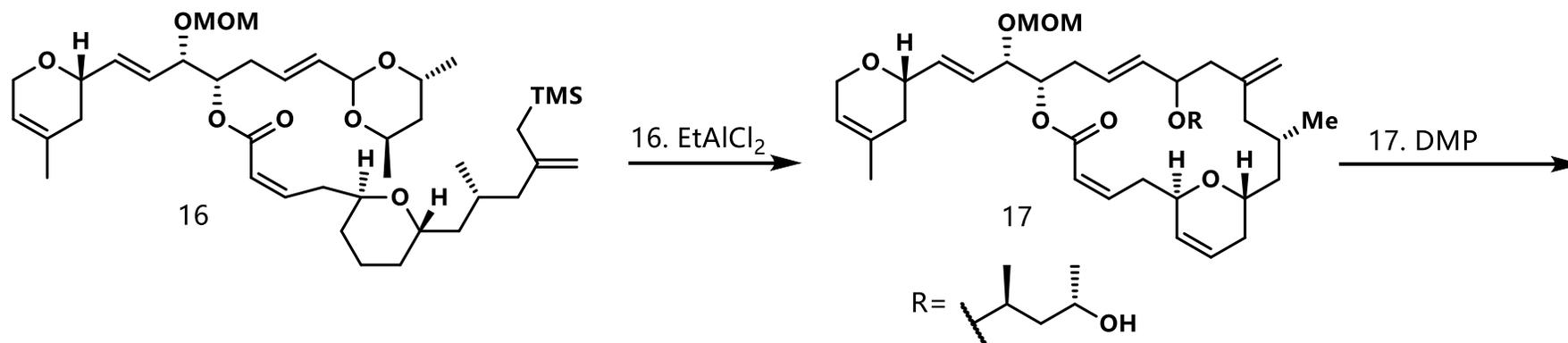
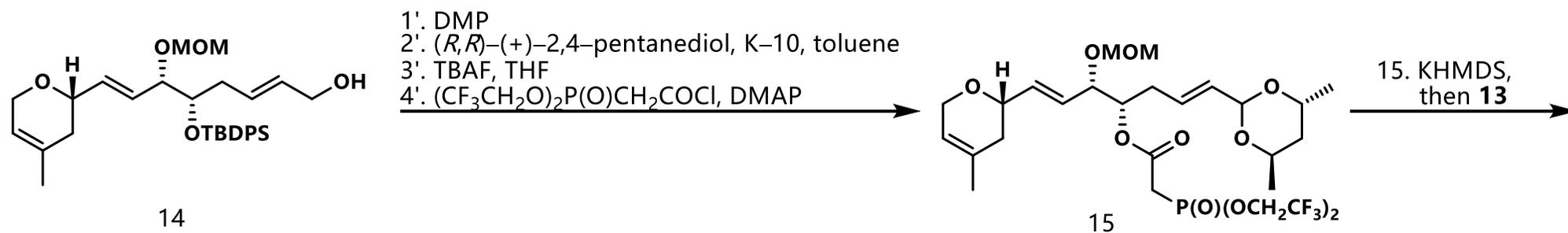
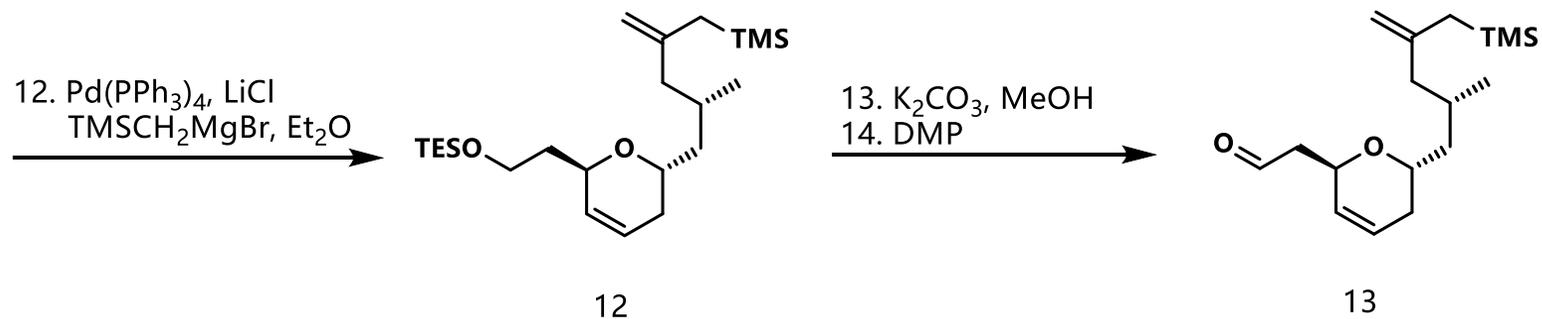
“Mulzer课题组的工作 (J. Am. Chem. Soc., 2001, 123, 10764-10765.)

“Macrocyclization via Allyl Transfer: Total Synthesis of Laulimalide



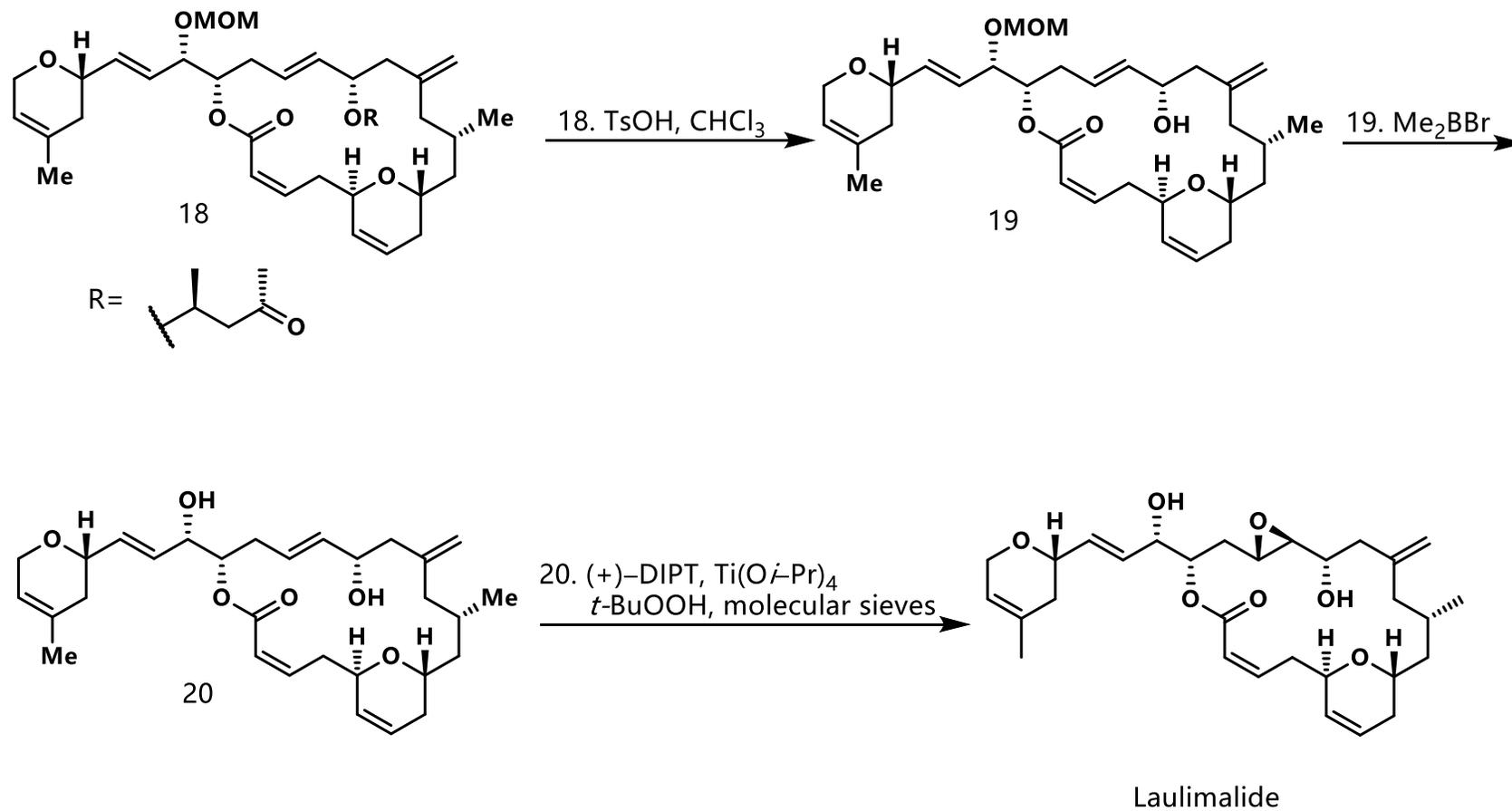
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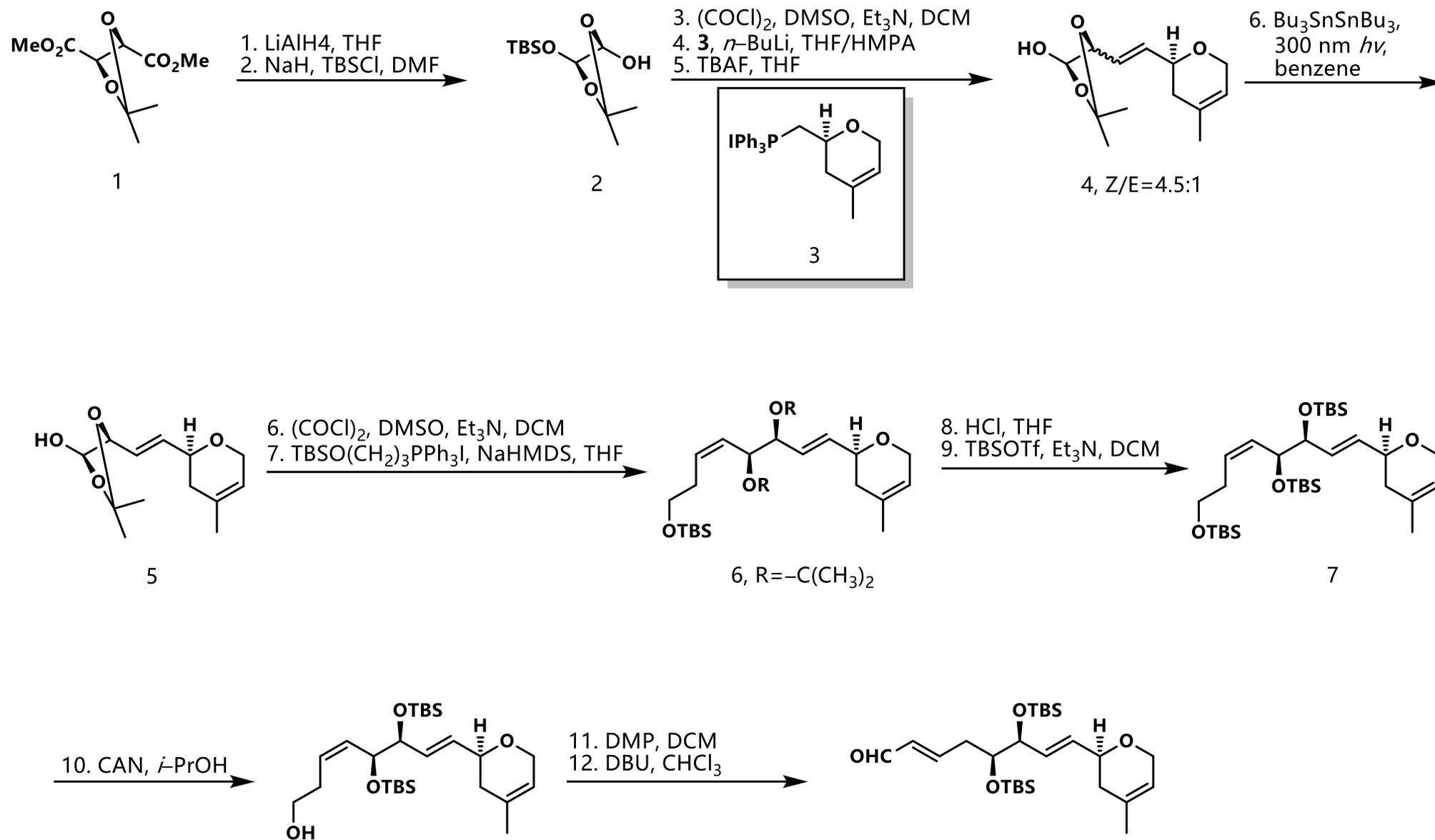
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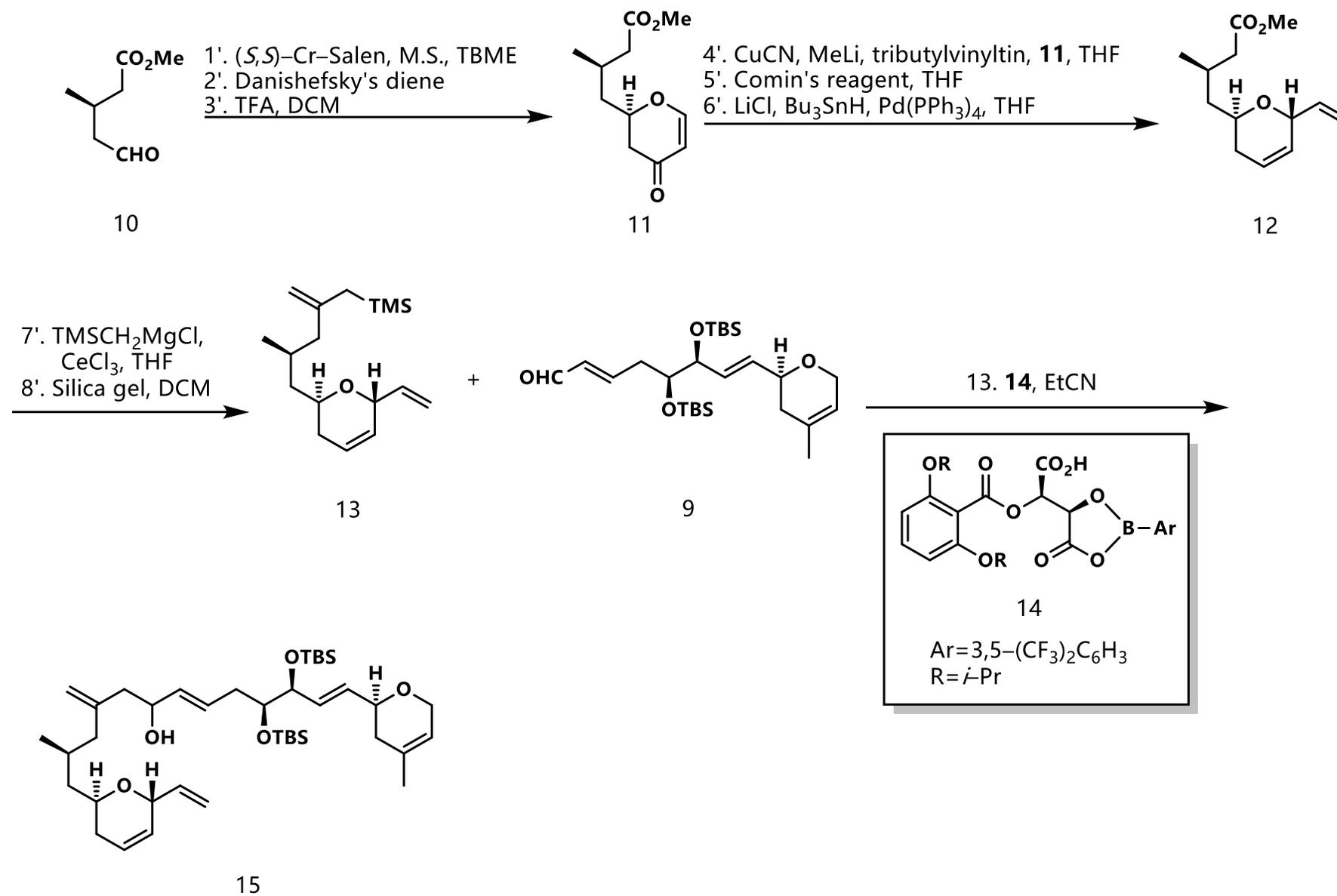
Wender课题组的工作 (J. Am. Chem. Soc., 2002, 124, 4956-4957.)

Total Synthesis of (-)-Laulimalide



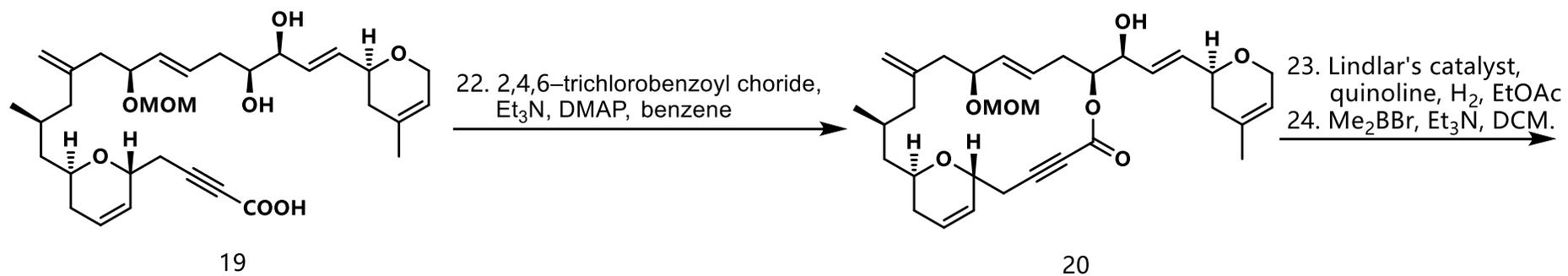
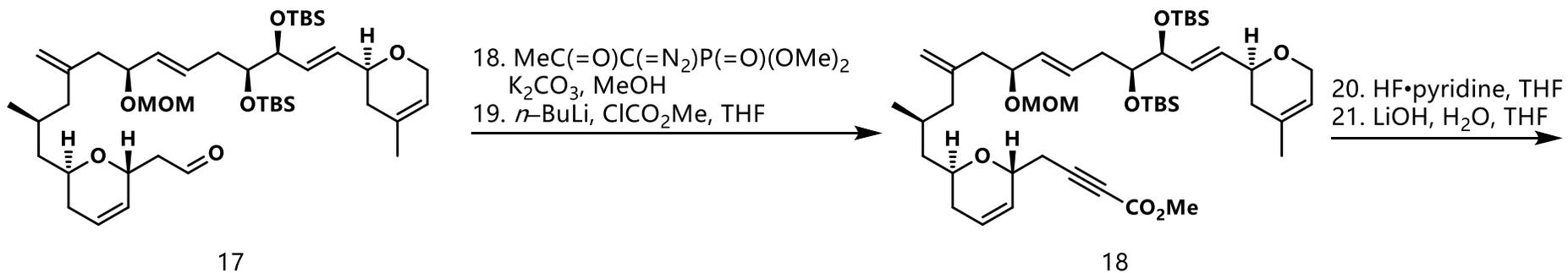
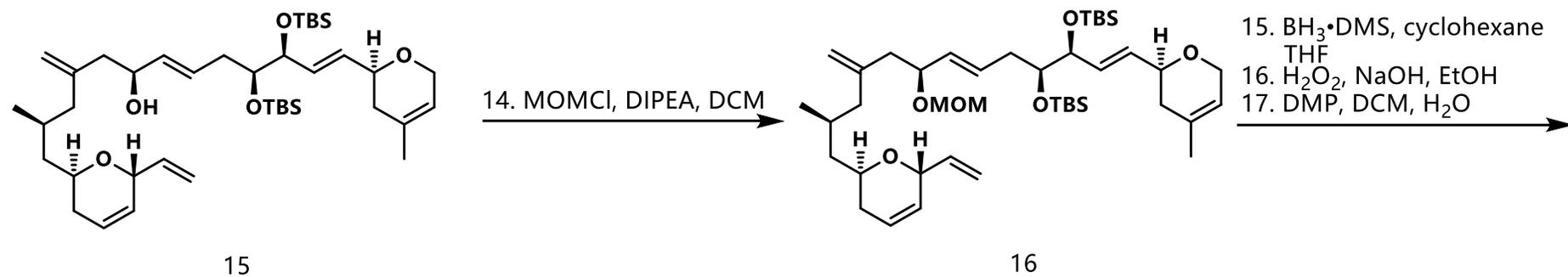
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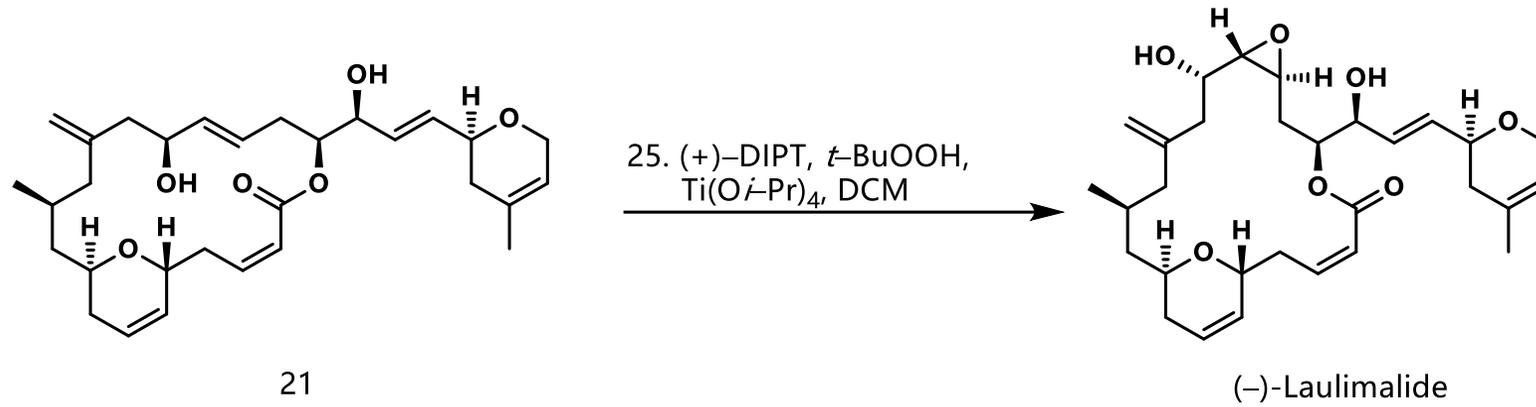
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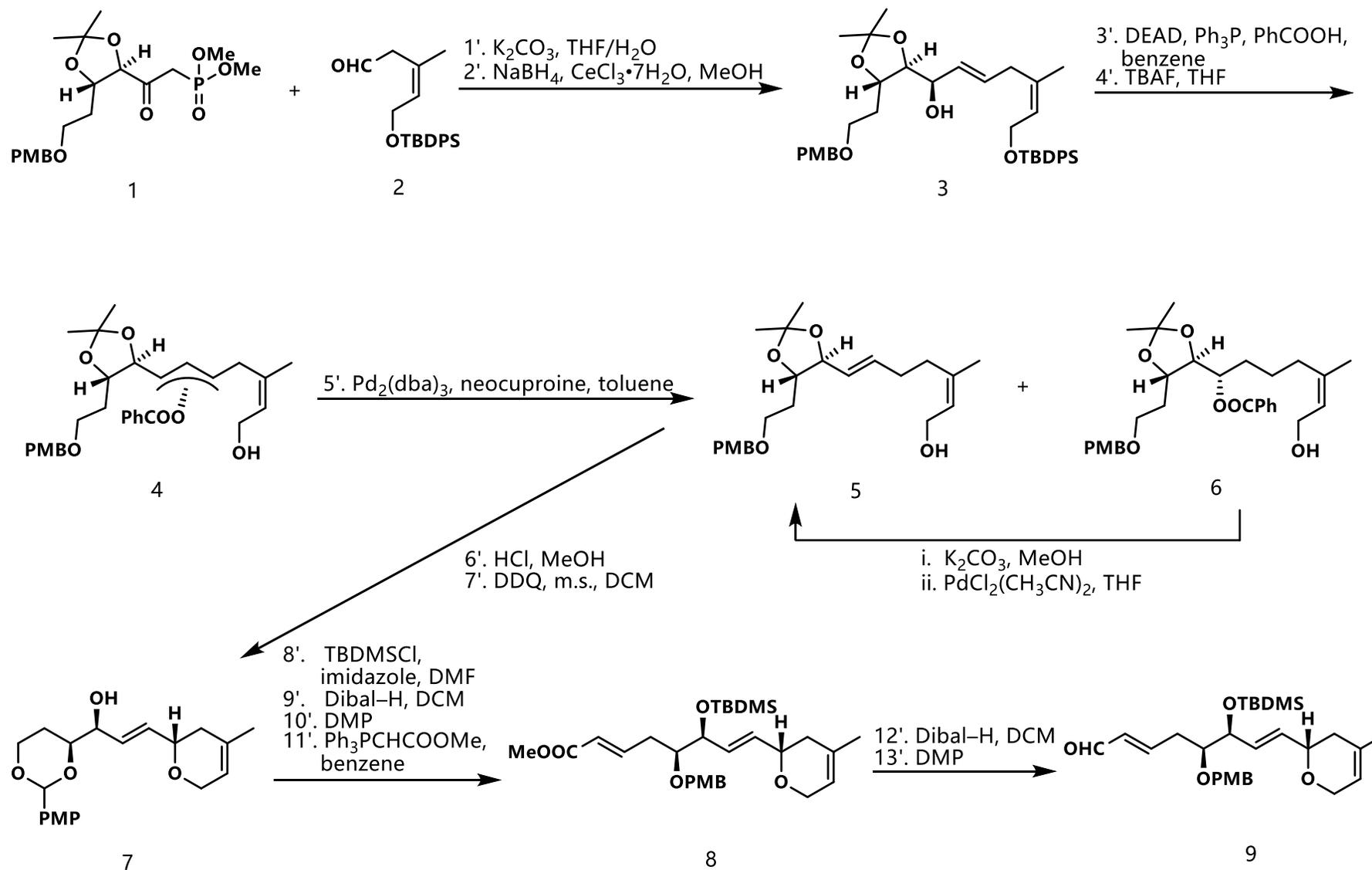
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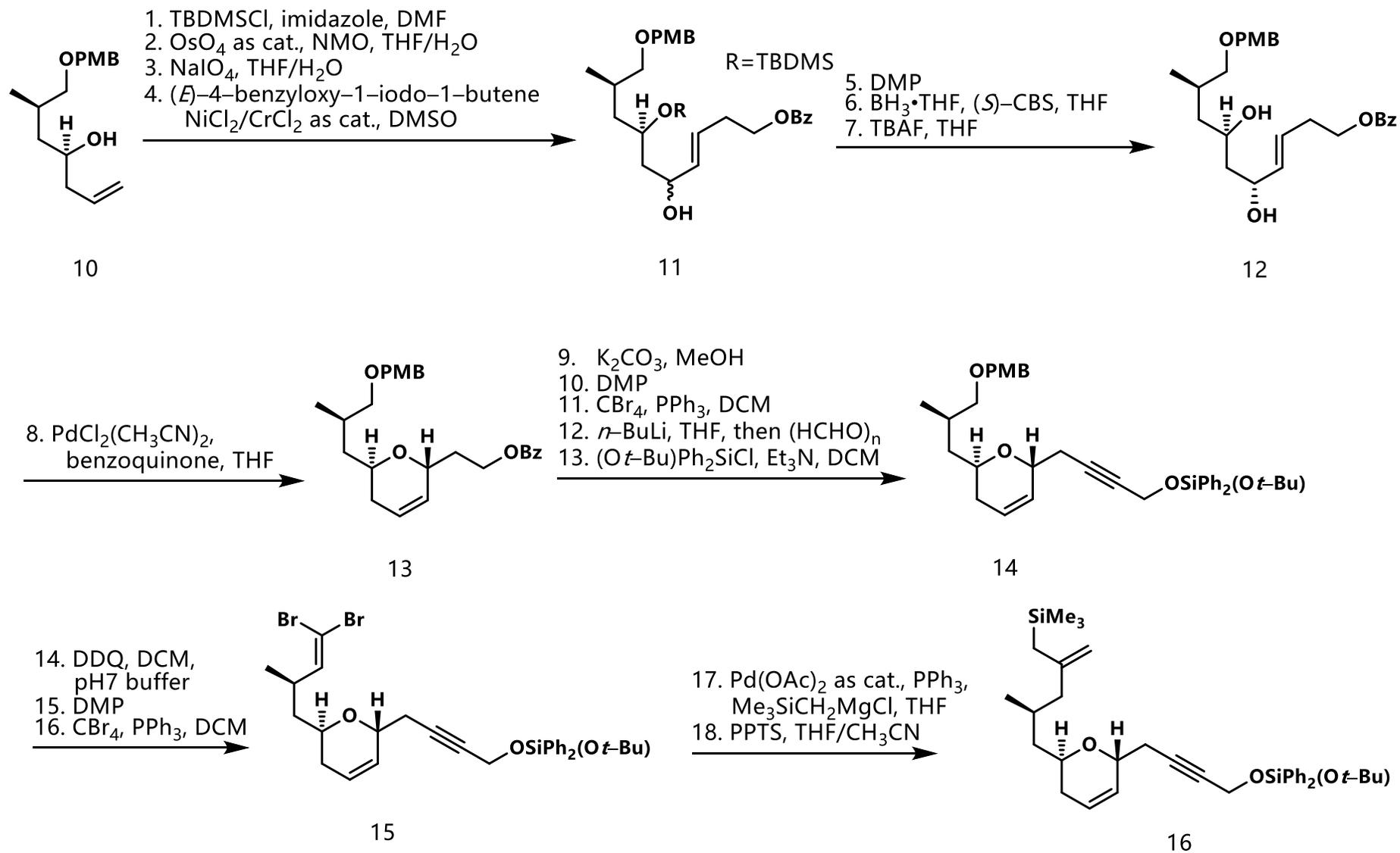
Uenishi课题组的工作 (Angew. Chem. Int. Ed., 2005, 44, 2756-2760.)

Total Synthesis of (-)-Laulimalide: Pd-Catalyzed Stereospecific Ring Construction of the Substituted 3,6-Dihydro[2H]pyran Units



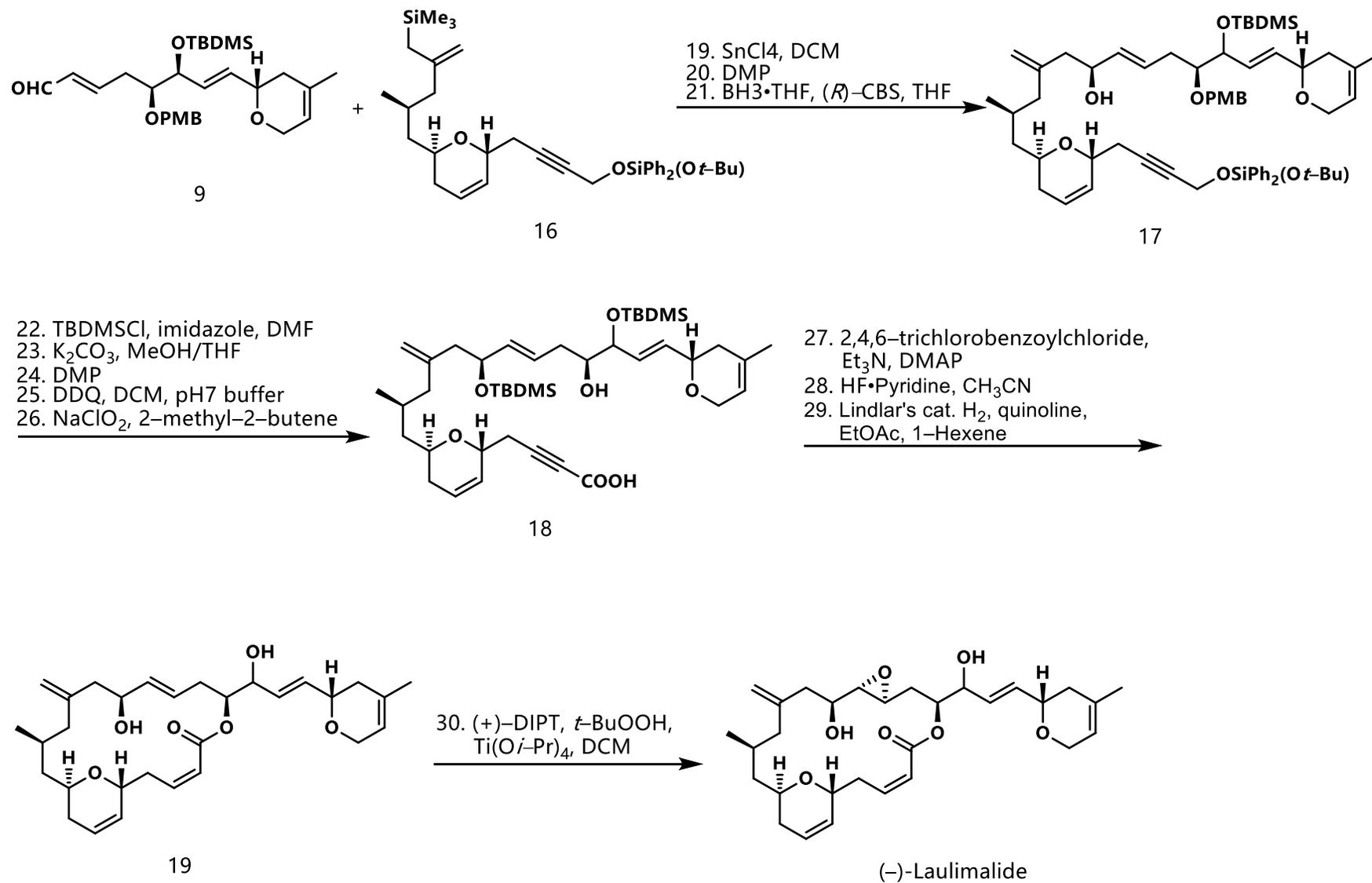
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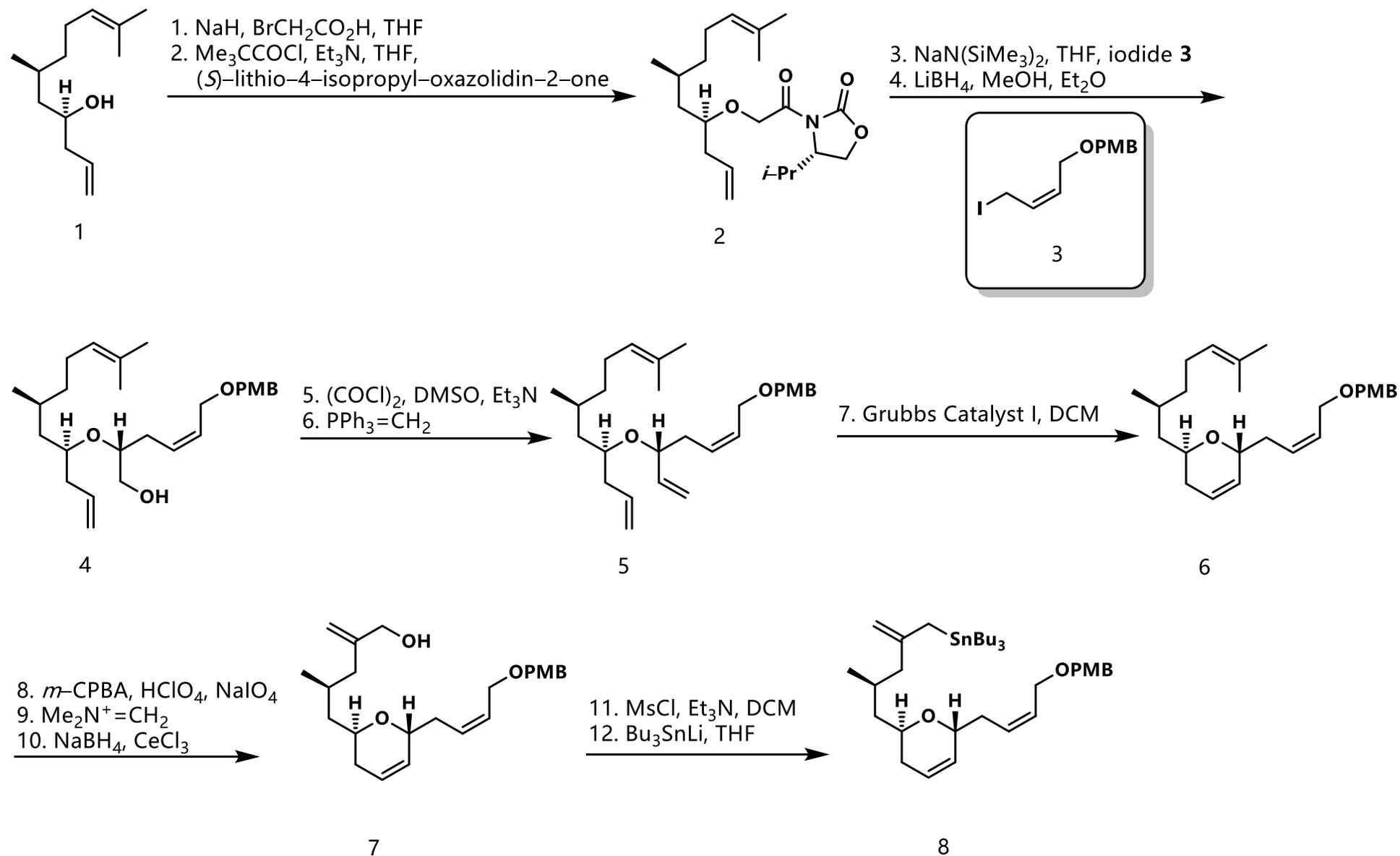
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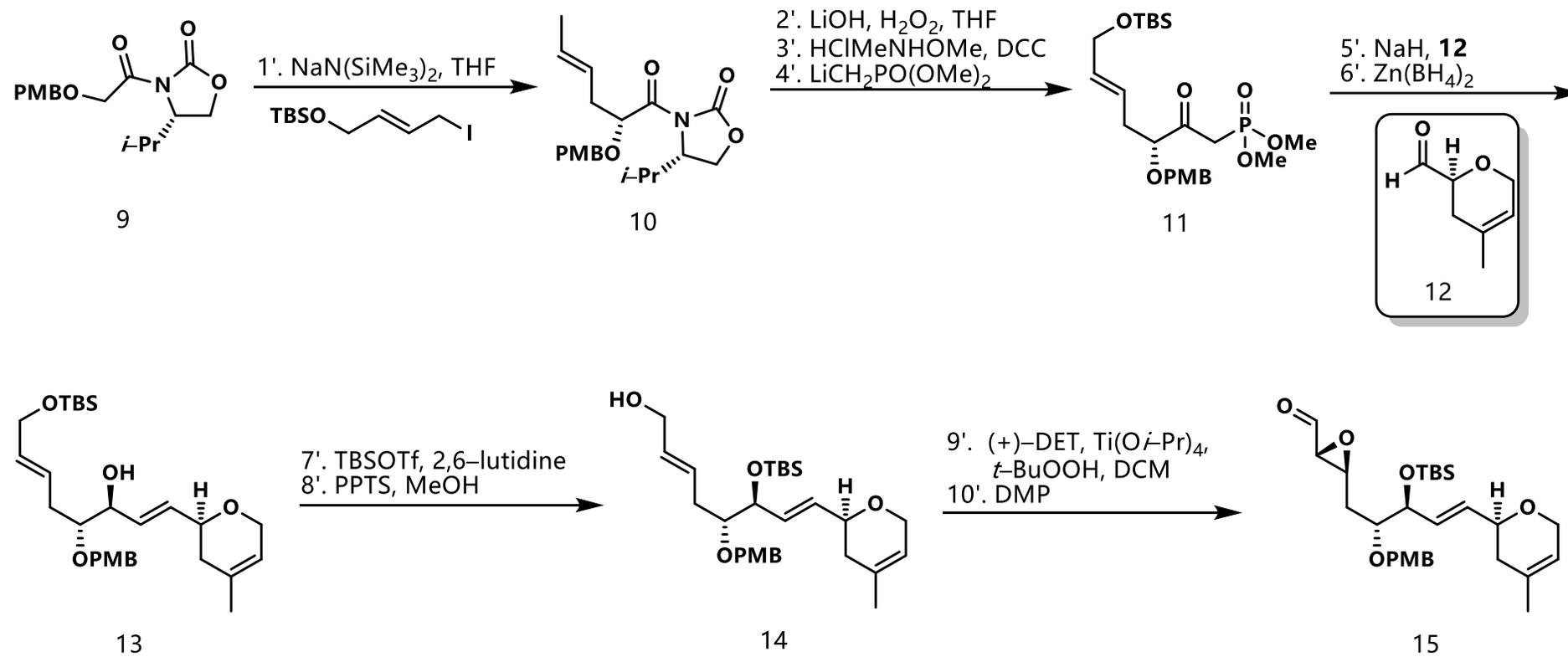
“Crimmins课题组的工作 (J. Am. Chem. Soc., 2002, 124, 5958-5959.)

“Asymmetric Total Synthesis of (-)-Laulimalide: Exploiting the Asymmetric Glycolate Alkylation Reaction



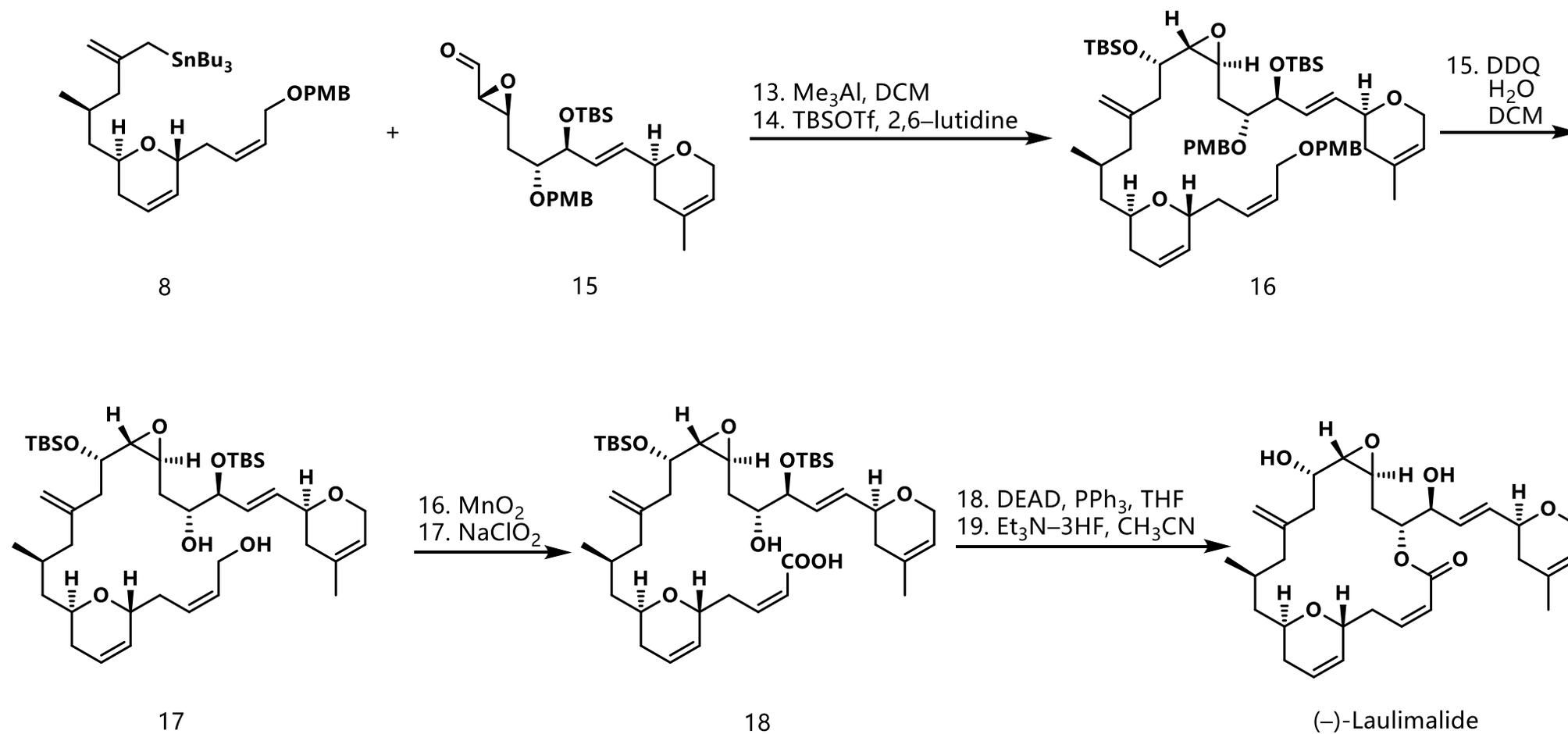
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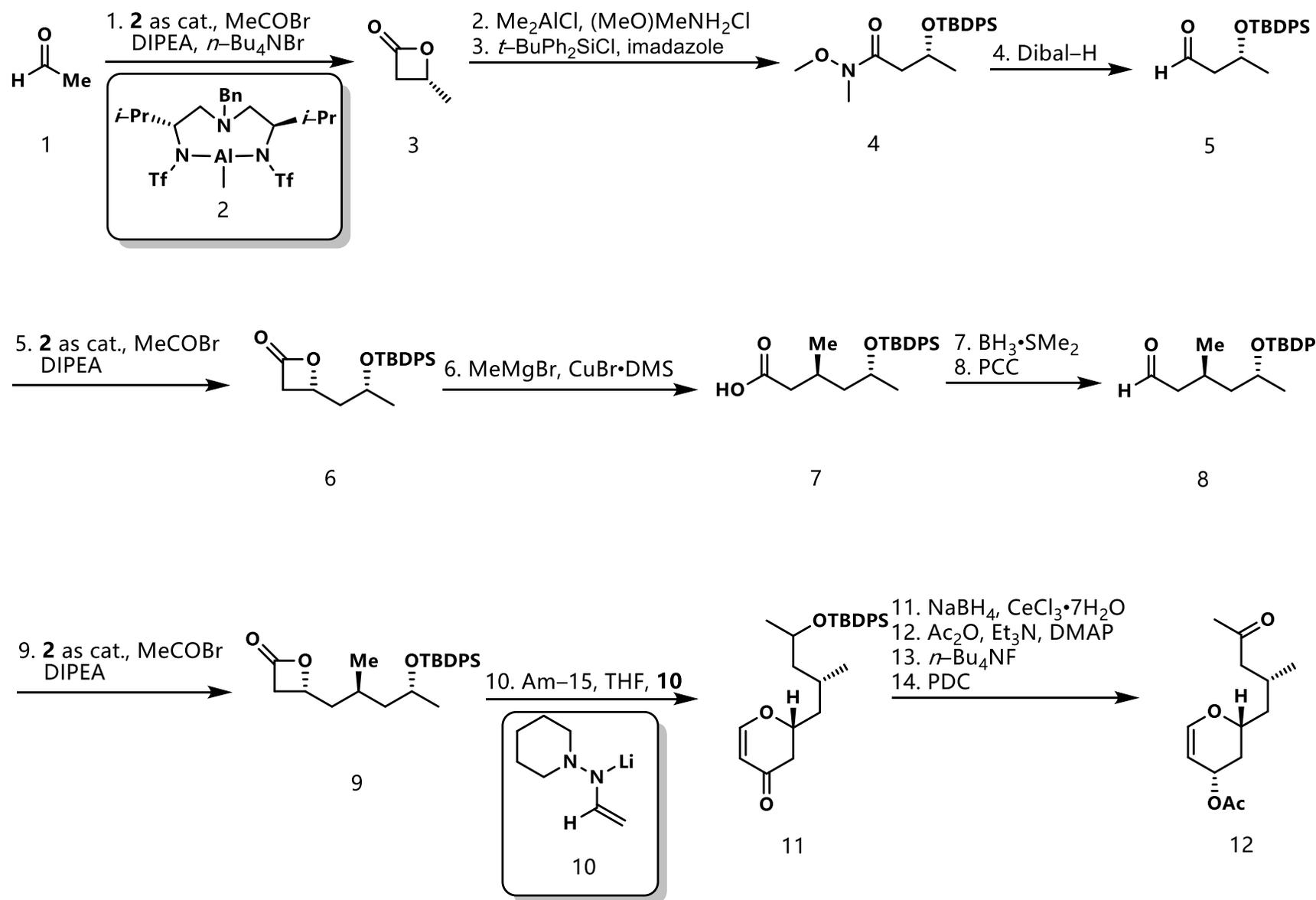
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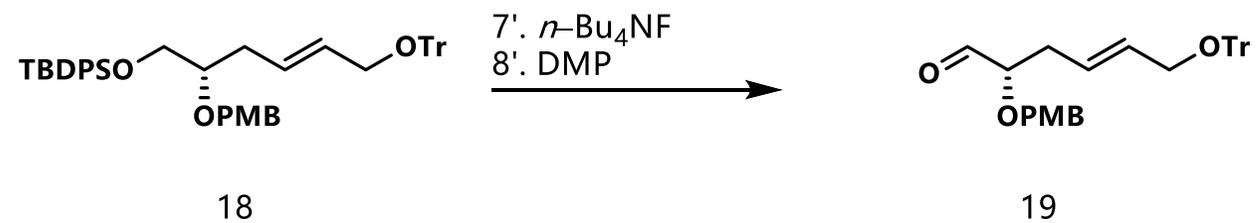
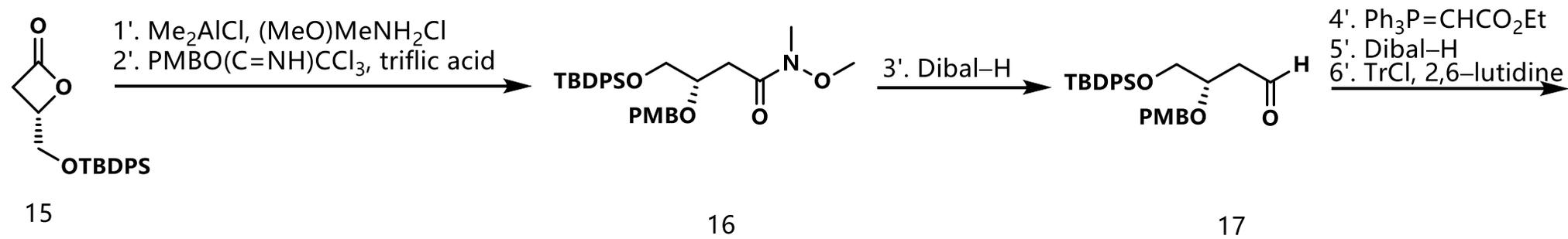
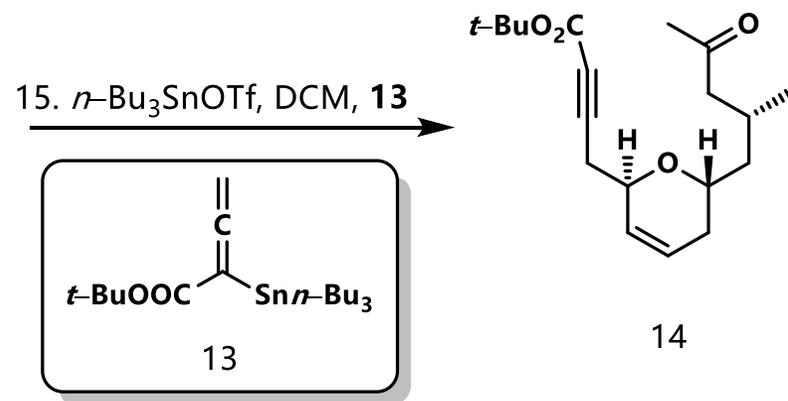
Nelson课题组的工作 (J. Am. Chem. Soc., 2002, 124, 13654-13655.)

A de Novo Enantioselective Total Synthesis of (-)-Laulimalide



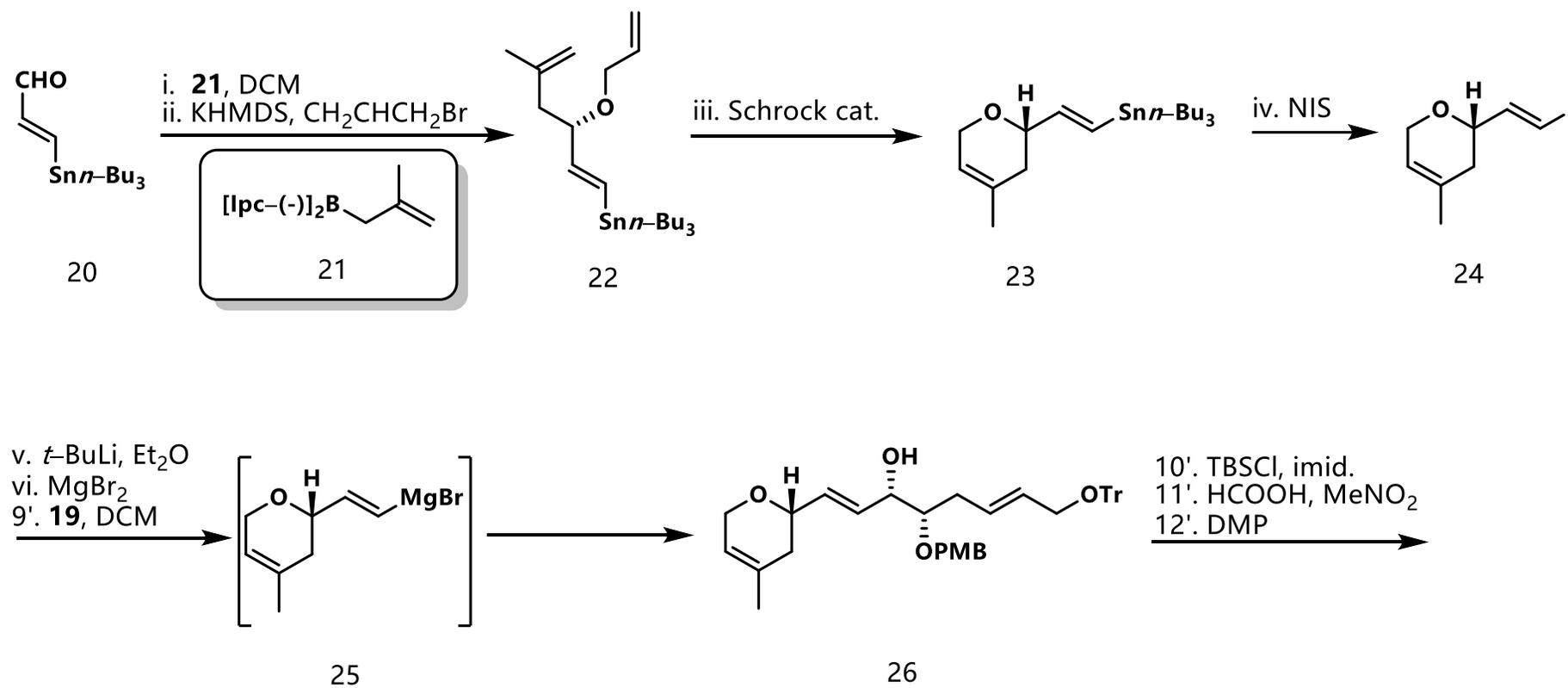
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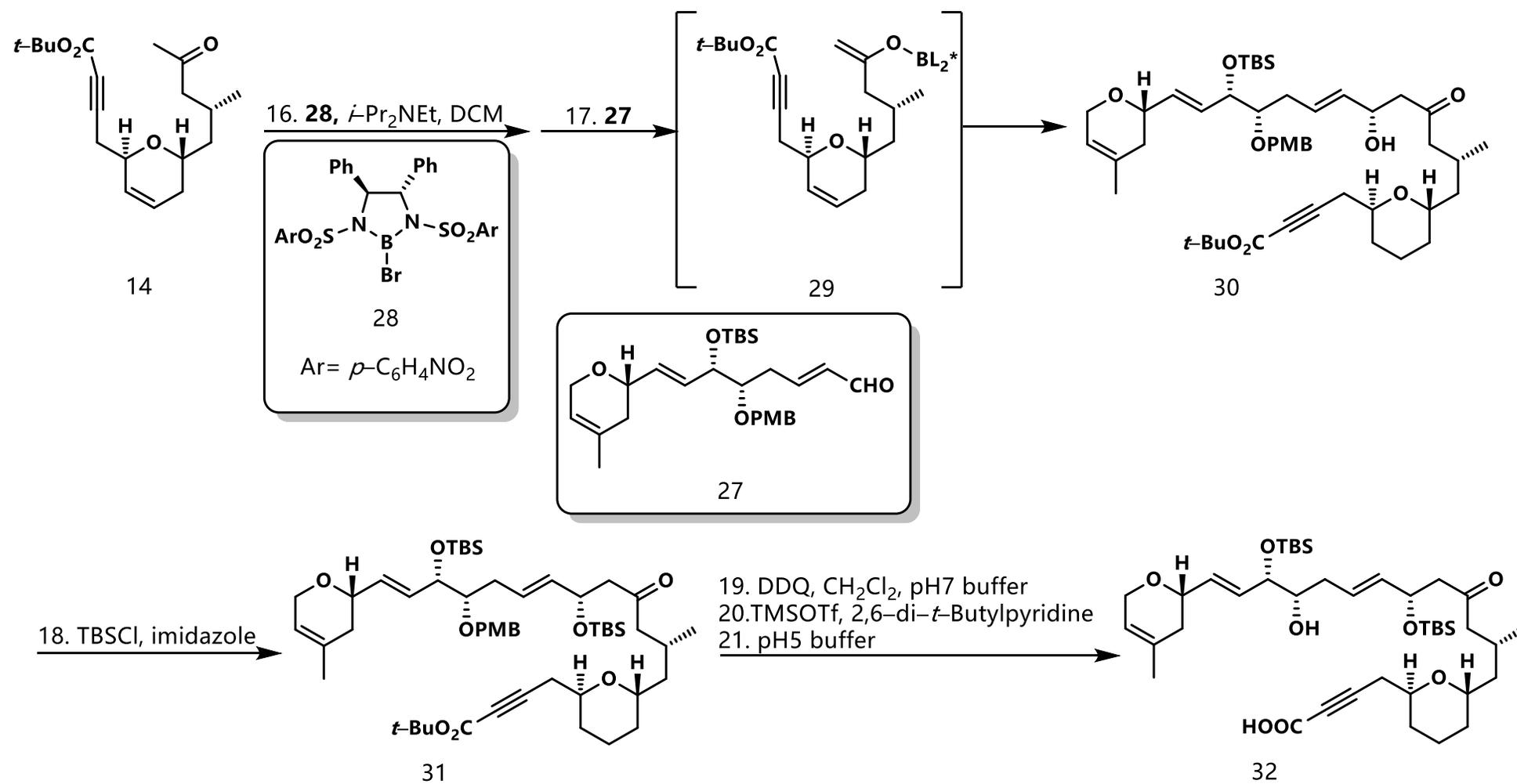
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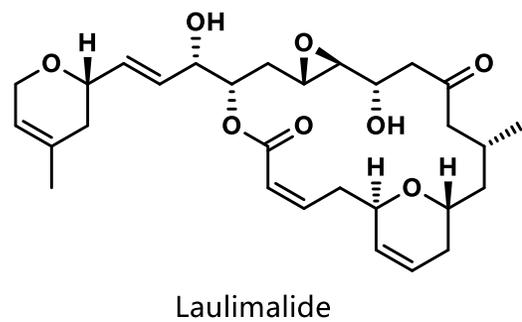
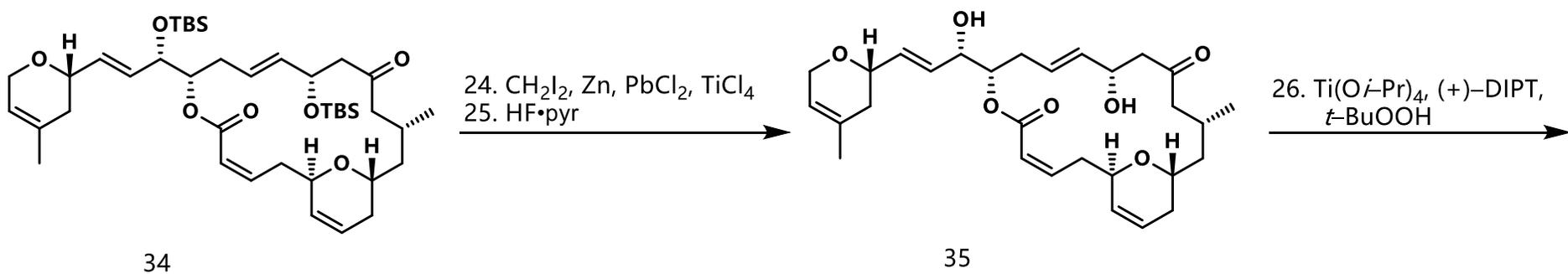
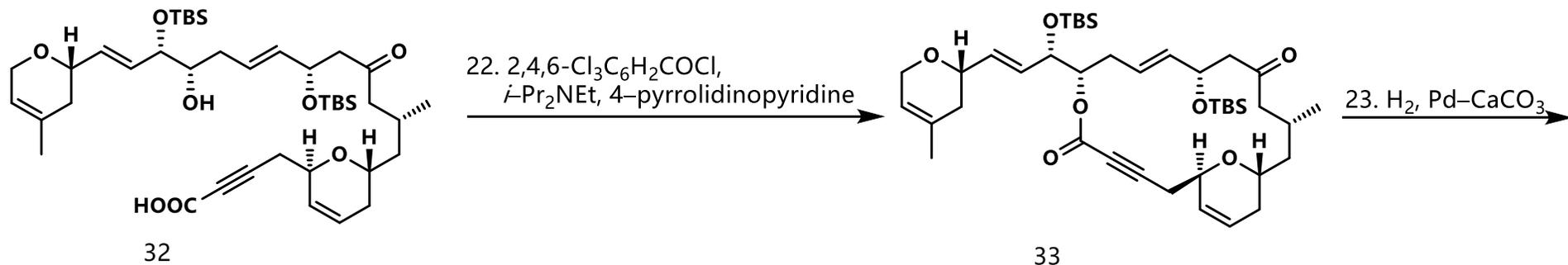
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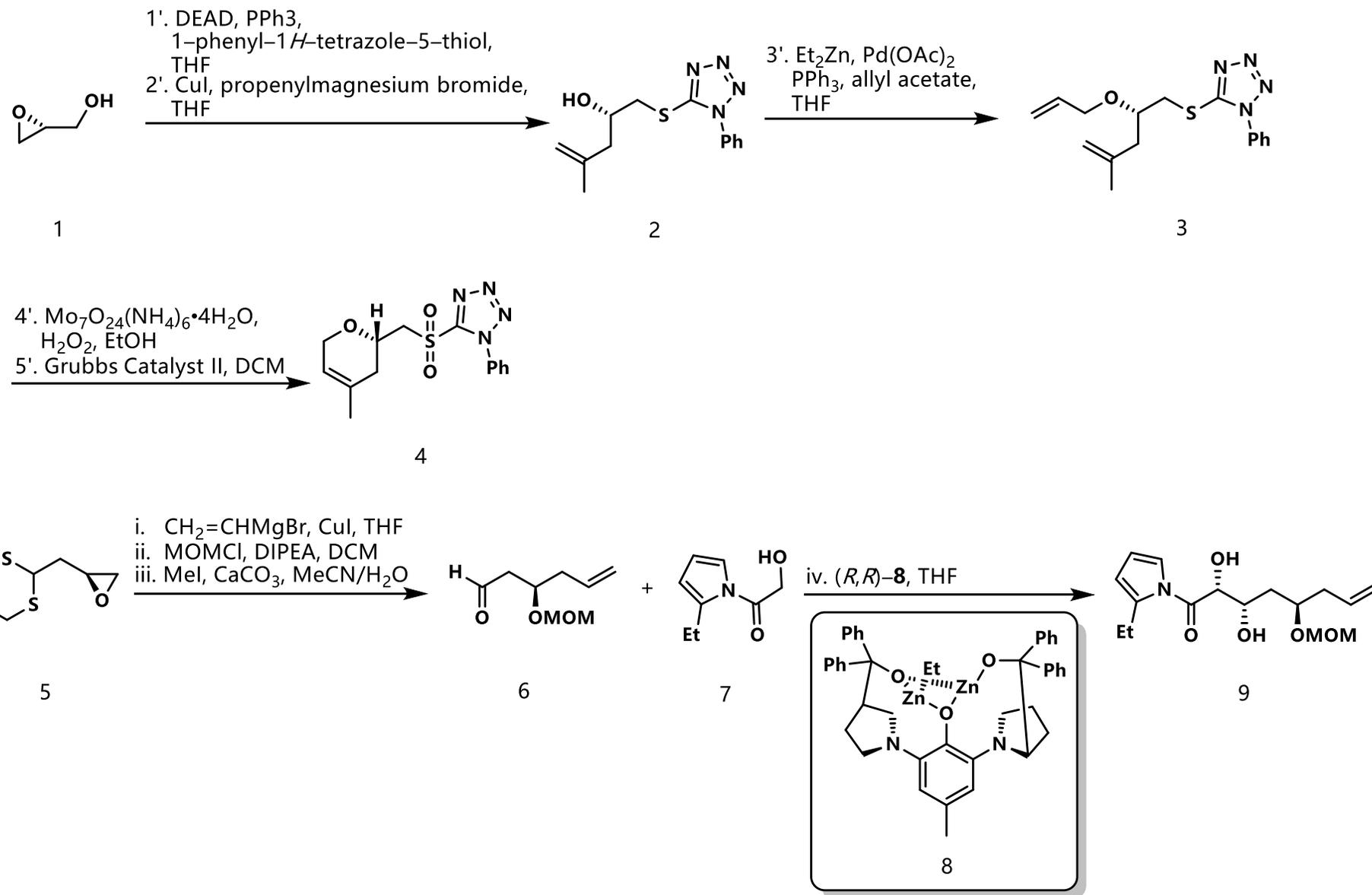
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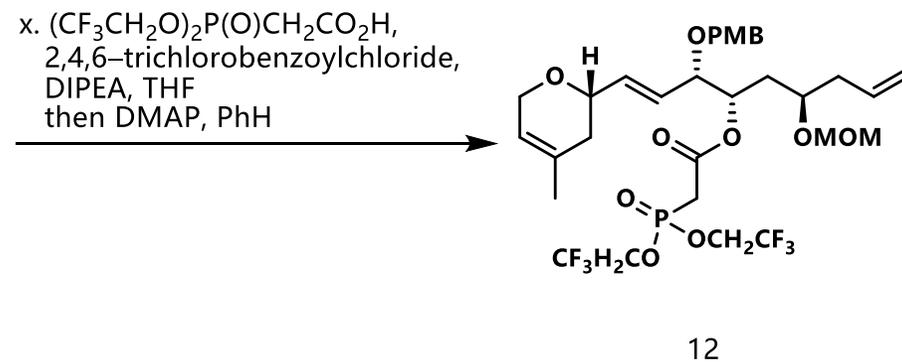
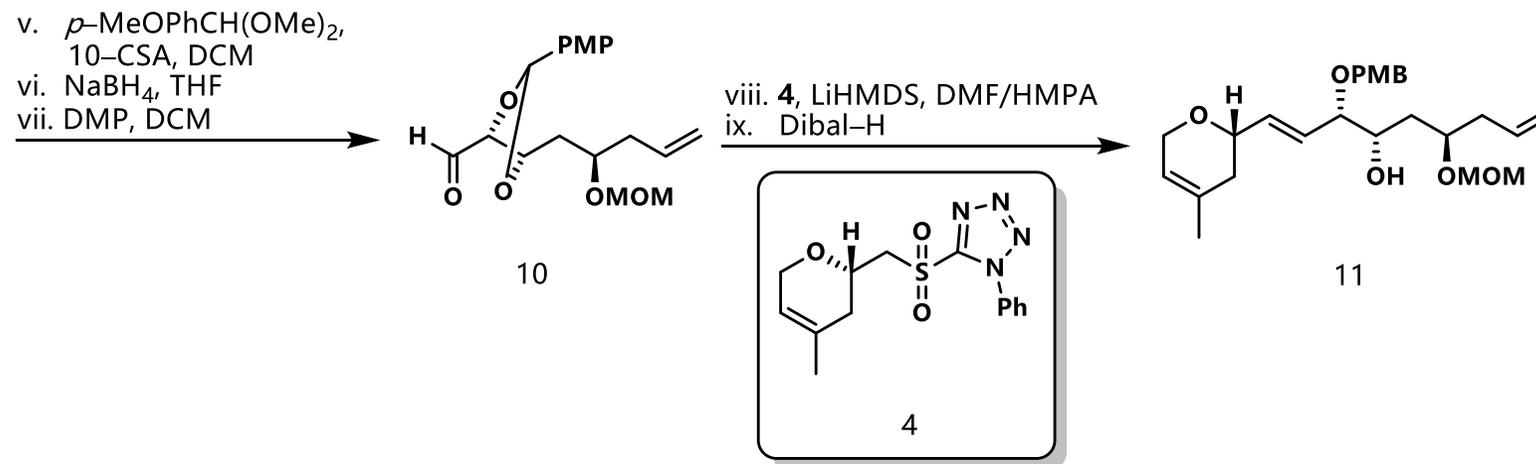
Trösti课题组的工作 (J. Am. Chem. Soc., 2009, 131, 17087-17089.)

Evaluating Transition-Metal-Catalyzed Transformations for the Synthesis of Laulimalide



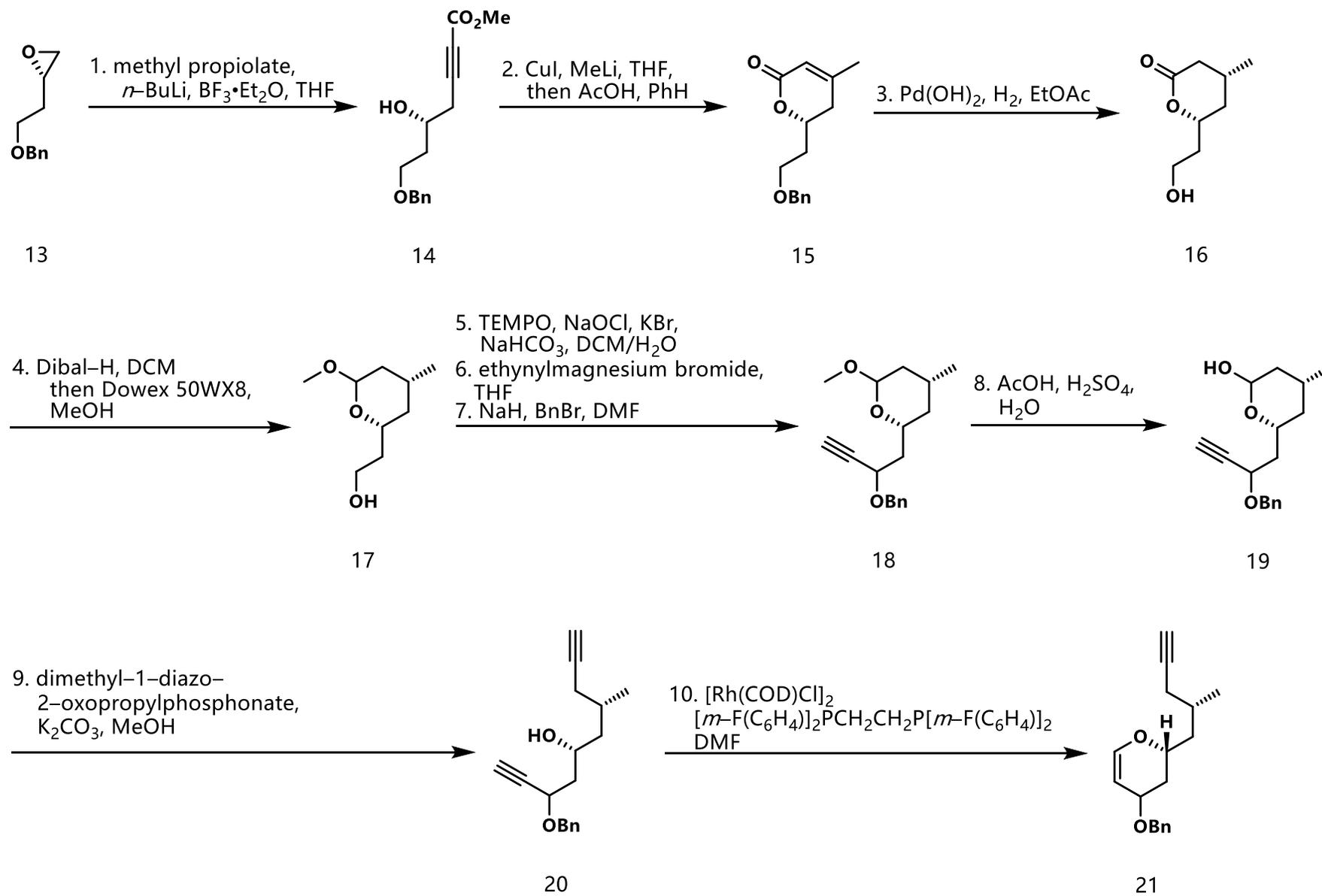
“Trosti课题组的工作 (J. Am. Chem. Soc., 2009, 131, 17087-17089.)

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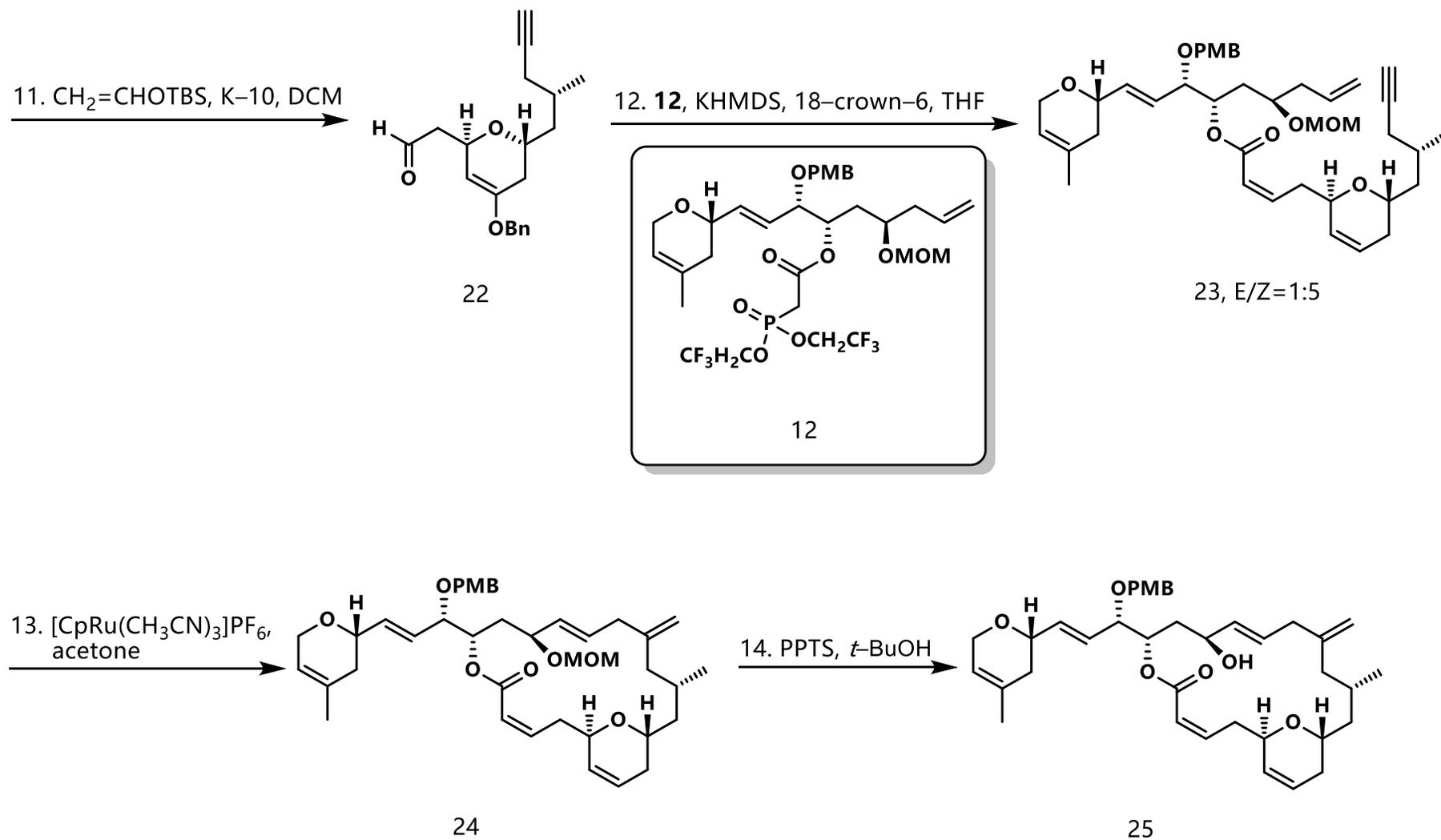
Trost课题组的工作 (J. Am. Chem. Soc., 2009, 131, 17087-17089.)

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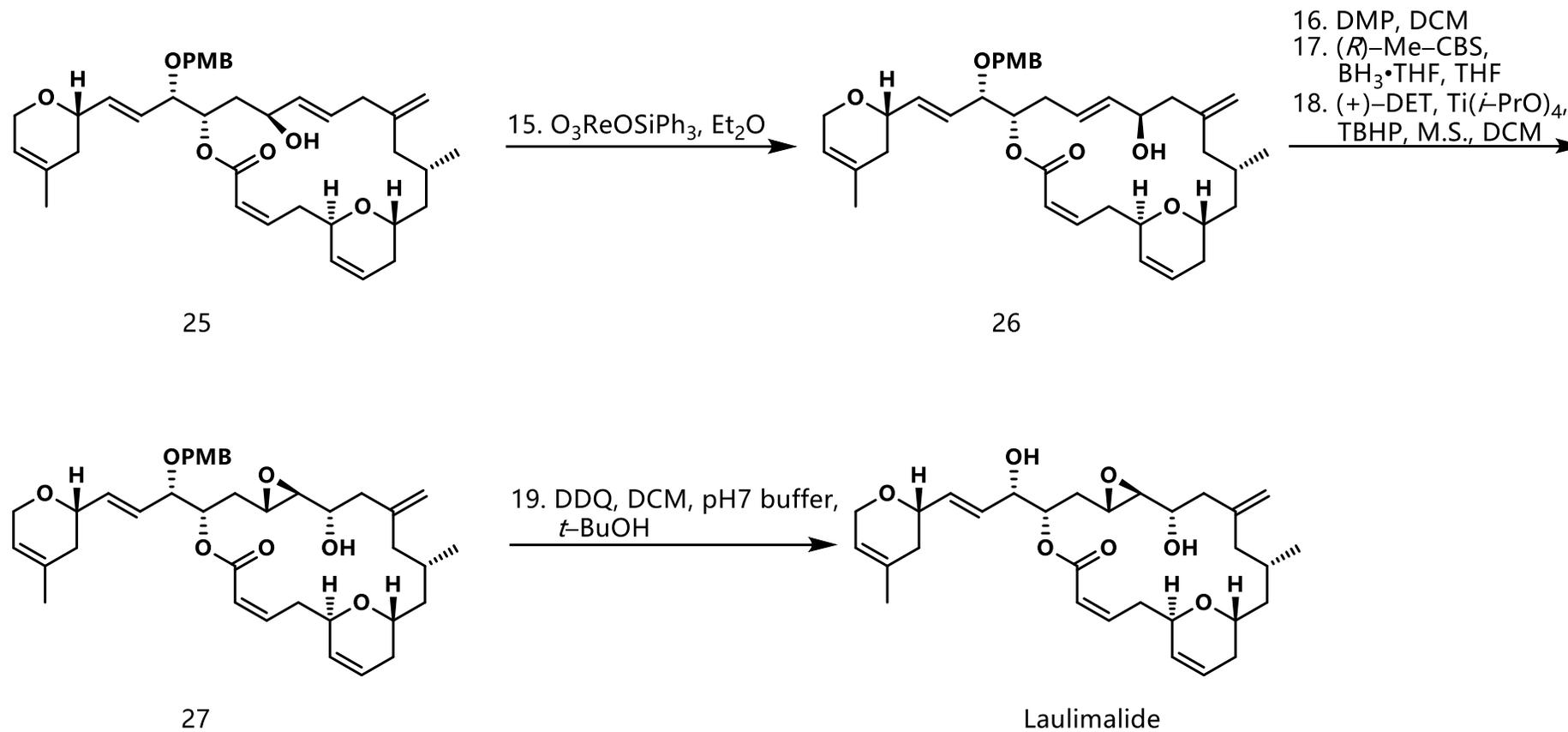
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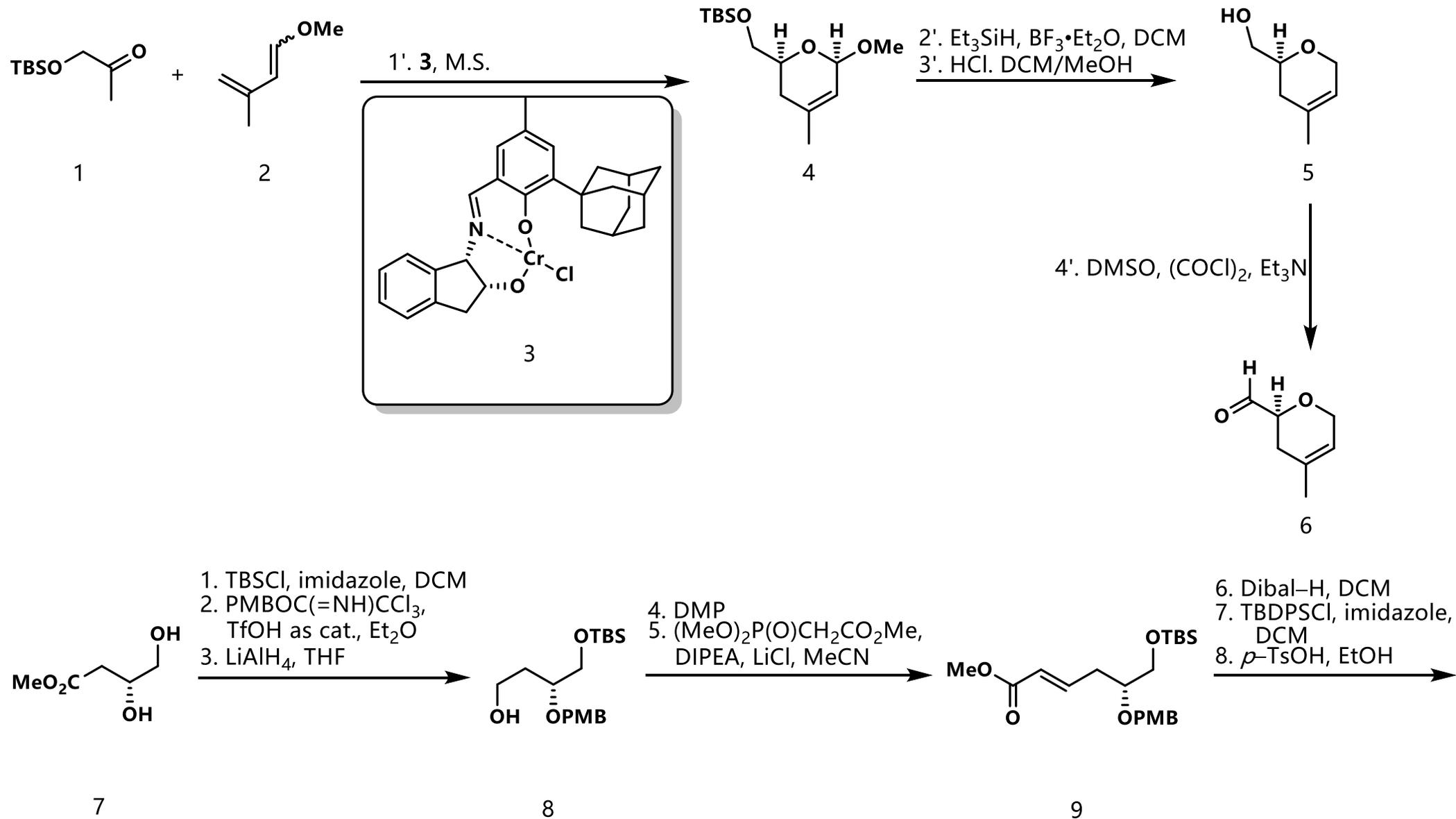
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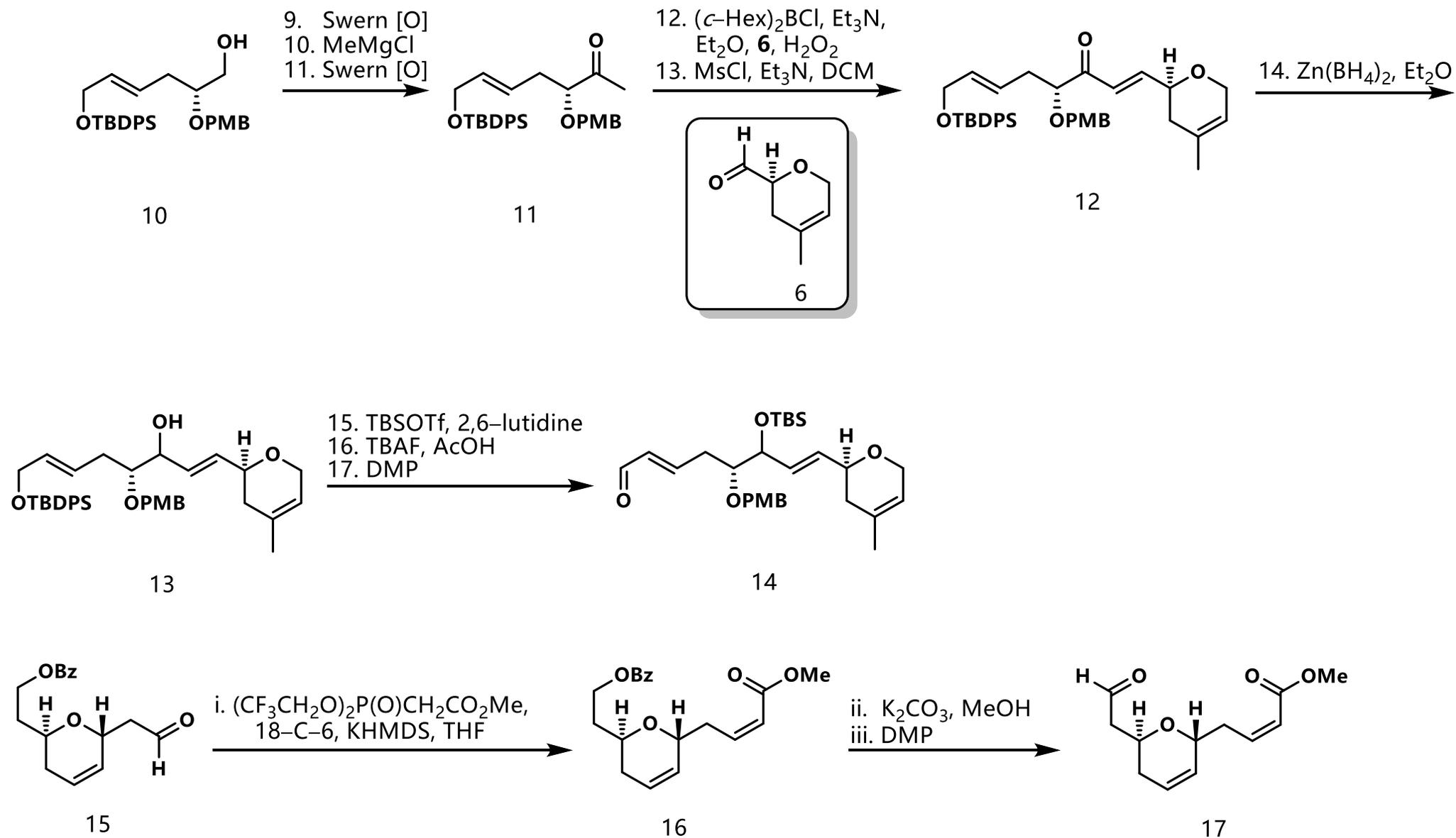
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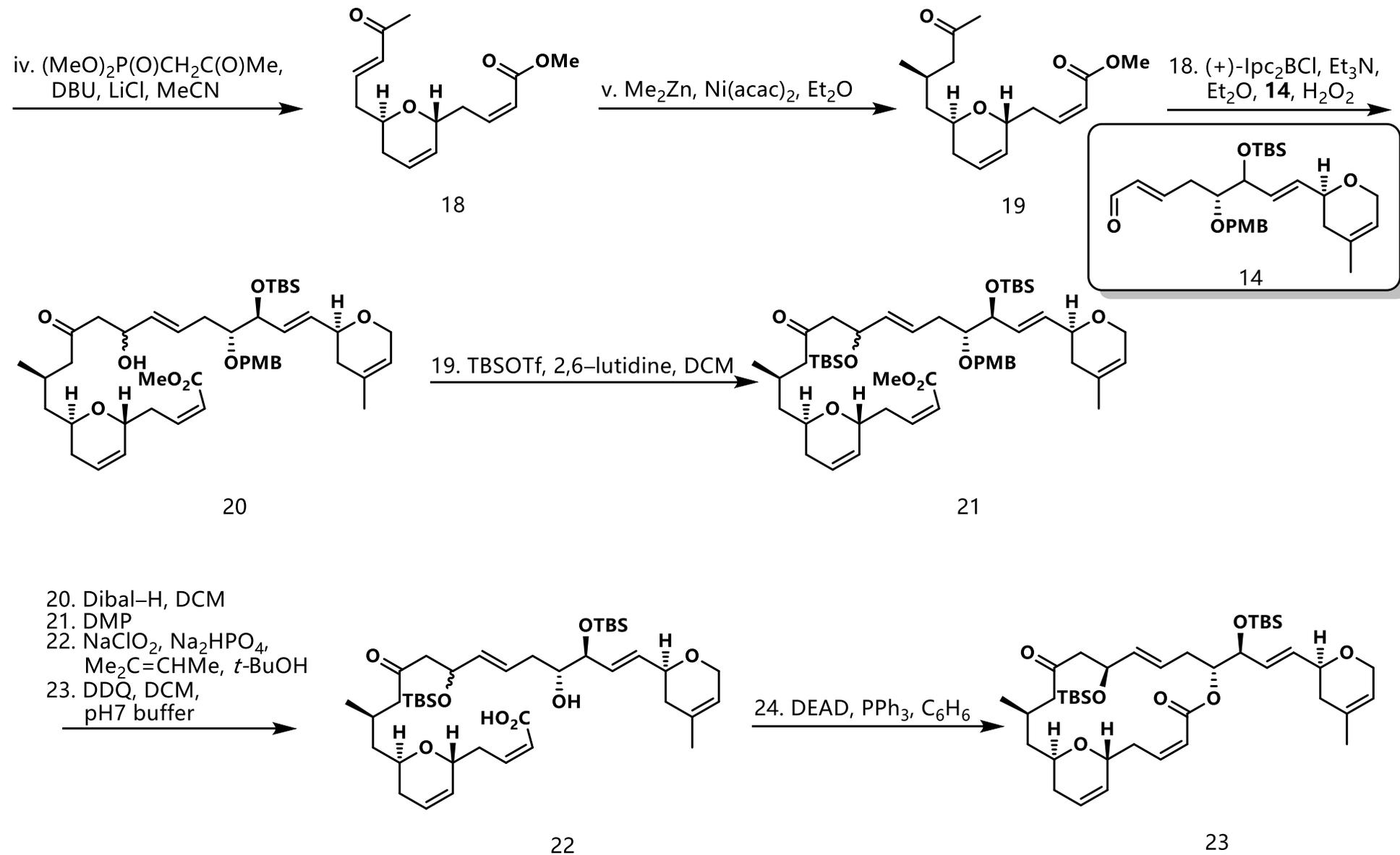
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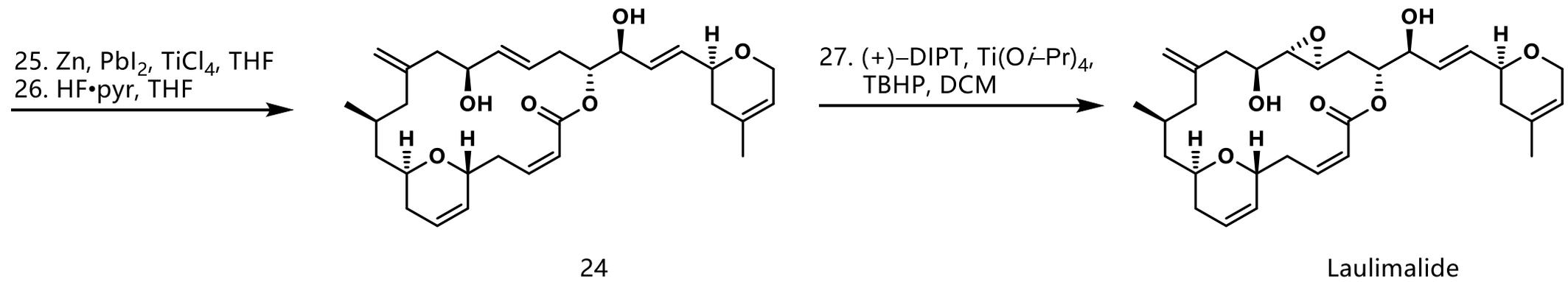
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THANKS