A Practical and Azide-Free Synthetic Approach to Oseltamivir from Diethyl d-Tartrate

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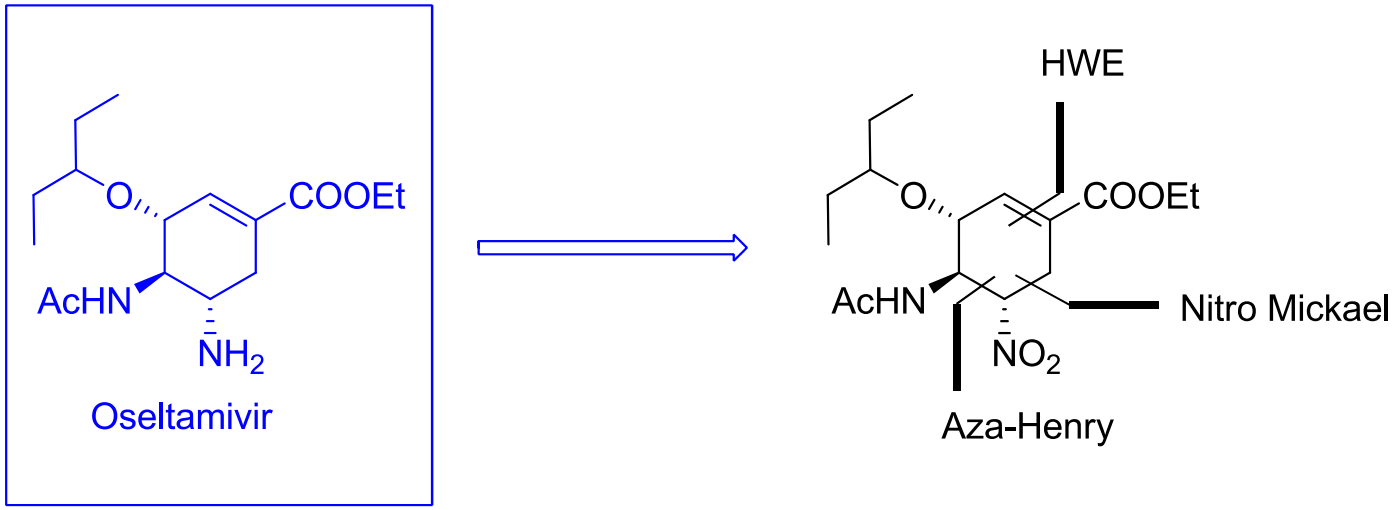
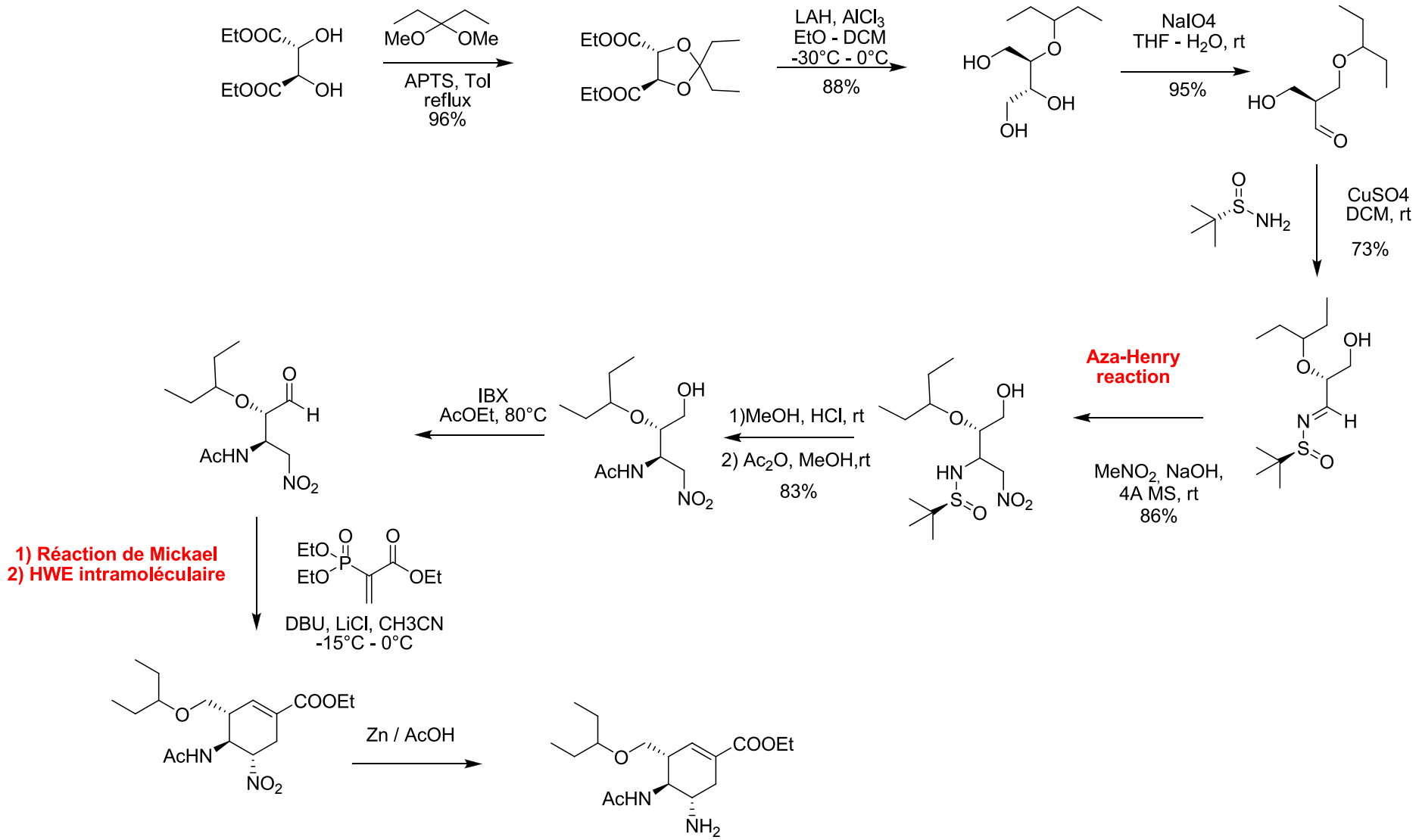
The active site of influenza virus neuraminidase (NA) is highly conserved for all influenza virus A and B strains, which makes it an important anti-influenza drug target. Up to now, many promising NA inhibitors with remarkable selectivity and activity have been designed and synthesized; two of them have reached the market in 1999, namely, zanamivir (Relenza) and oseltamivir phosphate (Tamiflu). It should be noted that oseltamivir phosphate is the most widely used antiviral drug for the treatment and prevention of influenza.





Jiang Weng, Yong-Bo Li, Rui-Bin Wang, Feng-Quan Li, Can Liu, Albert S. C. Chan, and Gui Lu. J. Org. Chem., 2010, asap

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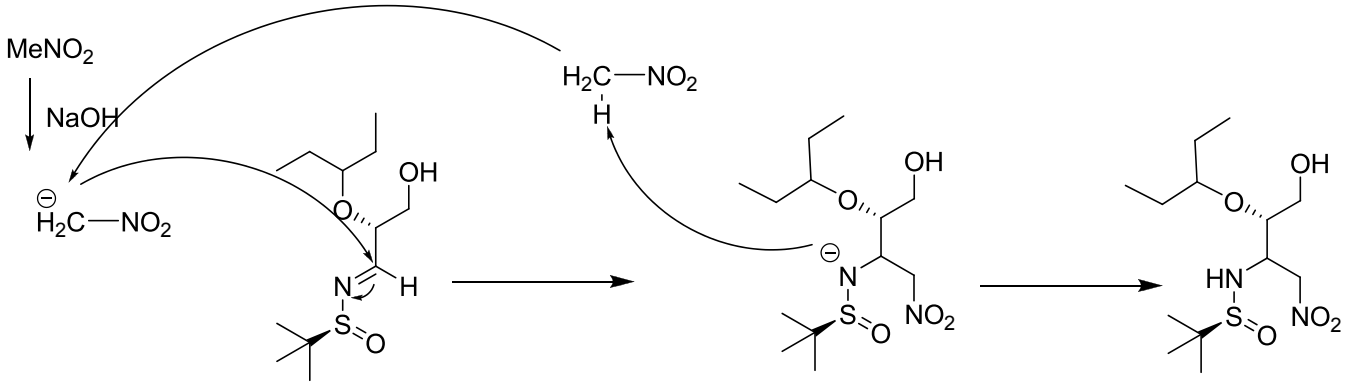
Mécanisme de la Réaction de Henry



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